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1920/21

CATALOG OF

MUHLENBERG COLLEGE

ALLENTOWN, PA.

1921

CATALOG

OF

MUHLENBERG COLLEGE

ALLENTOWN, PA.

FOR THE

FIFTY-FOURTH COLLEGIATE YEAR

1921

COLLEGE CALENDAR

1921

Jan 3 .....Christmas Vacation ends.
Jan. 18 .....Semi-annual Board Meeting.
Jan 24-31 .....First Term ends; Mid-Year Examinations.
Feb. 22 .....Washington's Birthday.
Mar. 25-28 .....Easter Recess.
May 16-20 .....Final Examination of Senior Class.
June 6-10 .....Examination of lower classes for promotion.
June 12 .....Baccalaureate Sermon.
June 13 .....President's Reception to the Seniors.
June 14 .....Junior Oratorical Prize Contest, 10 a. m.
June 14 .....Senior Class Day Exercises, 2 p. m.
June 15 .....Alumni Reunion.
June 15 .....Annual Board Meeting, at 10:00 a. m.
June 16 .....Commencement and Conferring of Degrees.
June 27-Aug. 6...Summer School.

SUMMER VACATION

1921-1922

Sept. 13.....First Term begins.
Oct. 1 .....Extension Courses begin.
Nov. 24-27 .....Thanksgiving Recess.
Dec. 23 .....Christmas Vacation begins.

1922

Jan. 2 .....Christmas Vacation ends.
Jan. 23-29 .....First Term ends; Mid-Year Examinations.
April 14-17.....Easter Recess.
June 11-15 .....Commencement Week.

BOARD OF TRUSTEES

Term Expires.

1923 Mr. C. Raymond Bard ..... Reading
1921 Rev. J. L. Becker, D.D. ..... Allentown
1921 Mr. Frank D. Bittner ..... Allentown
1921 Reuben J. Butz, Esq. ..... Allentown
1921 D. D. Fritch, M.D. ..... Macungie
1921 Rev. George Gebert, D.D. ..... Tamaqua
1921 Mr. Theodore Hetzler ..... New York City
1922 Rev. C. M. Jacobs, D.D. ..... Philadelphia
1922 Rev. W. D. C. Keiter, D.D. ..... Allentown
1923 Rev. C. E. Kistler ..... Reading
1923 Mr. Oliver M. Clauss ..... Allentown
1923 Mr. Harry I. Koch ..... Allentown
1923 R. B. Klotz, M.D. ..... Allentown
1922 Hon. C. R. Lantz ..... Lebanon
1922 Mr. George W. March ..... Norristown
1923 Mr. E. Clarence Miller ..... Philadelphia
1922 Mr. Chas. F. Mosser ..... Allentown
1921 Mr. George K. Mosser ..... Trexlertown
1923 S. N. Potteiger, Esq. ..... Reading
1923 Rev. J. H. Sandt ..... Catawissa
1922 Howard S. Seip, D.D.S. ..... Allentown
1921 Hon. H. J. Steele, LL.D. ..... Easton
1922 Rev. A. T. W. Steinhaeuser, D.D. ..... Allentown
1922 Gen. Harry C. Trexler ..... Allentown
1923 Rev. S. G. Trexler, D.D. ..... Buffalo
1923 Rev. J. H. Waidelich, D.D. ..... Sellersville
1923 R. D. Wenrich, M.D. ..... Wernersville
1921 Rev. J. E. Whitteker, D.D. ..... Lancaster
1921 Rev. J. D. C. Witke ..... Scranton
1922 Col. E. M. Young ..... Allentown

OFFICERS AND COMMITTEES OF THE BOARD

Reuben J. Butz, Esq., *President of the Board.*
Oscar F. Bernheim, *Secretary and Treasurer, Allentown, Pa.*

CENTRAL EXECUTIVE COMMITTEE

Reuben J. Butz, Esq., *Chairman.*
Harry I. Koch
D. D. Fritch, M.D.
Rev. J. A. W. Haas, D.D., LL.D., *Ex-Officio.*
Rev. J. H. Waidelich, D.D.
Chas. F. Mosser
Robert J. Klotz, M.D.
Howard S. Seip, D.D.S.
A. T. W. Steinhaeuser, D.D.
Frank D. Bittner
Oliver M. Clauss

FIELD SECRETARY

Gurney F. Afflerbach, Ph.B., M.S.

FACULTY AND INSTRUCTORS

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REV. JOHN A. W. HAAS, D.D., LL.D.

President's Residence, Campus.

President; Professor of Religion and Philosophy.

A.B., University of Pennsylvania, 1884; A.M., and B.D., University of Pennsylvania, 1887; Graduate Work, University of Leipsic, 1887-88; D.D., Thiel College, 1902; LL.D., University of Pennsylvania, 1914.

GEORGE T. ETTINGER, Ph.D., Litt.D.

1114 Hamilton Street.

Dean; Professor of the Latin Language and Literature.

A.B., Muhlenberg College, 1880; A.M., Muhlenberg College, 1883; Ph.D., New York University, 1891; Litt. D., Muhlenberg College, 1920.

REV. WILLIAM WACKERNAGEL, D.D., LL.D.

626 Chew Street.

Chaplain; Professor of Modern Languages and Literature, Emeritus.

A.M., Muhlenberg College, 1882; D.D., University of Pennsylvania, 1883; LL.D., Muhlenberg College, 1918.

REV. JOHN A. BAUMAN, Ph.D., D.D.

399 Turner Street.

Professor of Mathematics and Astronomy.

A.B., Muhlenberg College, 1873; A.M., Muhlenberg College, 1876; Ph.D., Muhlenberg College, 1894; D.D., Muhlenberg College, 1920.

ROBERT C. HORN, A.M.

115 South West Street.

Mosser-Keck Professor of the Greek Language and Literature.

A.B., Muhlenberg College, 1900; A.M., Muhlenberg College, 1903; A.M., Harvard University, 1904; Graduate Work, Johns Hopkins University, 1900-1901; Harvard University, 1903-1904; 1907-1908; 1919.

REV. ROBERT R. FRITSCH, A.M.

2220 Chew Street.

Professor of German and Religion.

A.B., Muhlenberg College, 1900; A.M., Muhlenberg College, 1903; A.M., Illinois Wesleyan University, 1907; Graduate Work, University of Pennsylvania, 1910-1913.

HARRY D. BAILEY, A.M.
1738 Linden Street.
Professor of Biology.
A.B., Lafayette College, 1904; A.M., Lafayette College, 1911.

STEPHEN G. SIMPSON, A.M.
28 N. Franklin Street.
Librarian; Professor of English.
A.B., Lafayette College, 1896; A.M., Lafayette College, 1899.

REV. JOHN D. M. BROWN, A.M.
117 North West Street.
Professor of English.
A.B., Muhlenberg College, 1906; A.M., Columbia University, 1907; Mount Airy Theological Seminary, 1910; University of Grenoble, Summer 1914.

ALBERT C. H. FASIG, M.S.
131 N. Franklin Street.
Professor of Chemistry.
A.B., Muhlenberg College, 1909; M.S., Muhlenberg College, 1910.

ISAAC MILES WRIGHT, Pd.D.
240 North St. Cloud Street.
Professor of Philosophy and Pedagogy.
B.S., Alfred University, 1904; Pd.M., New York University, 1914; Pd.D., New York University, 1916.

HENRY R. MUELLER, A.M.
119 North West Street.
Professor of History and Political Science.
A.B., Muhlenberg College, 1909; Columbia University, 1914-1917; A.M., Columbia University, 1915; University of Paris, 1919.

HUGO E. ANDERSON, A.M.
216 North St. Cloud Street.
Professor of Mathematics and Physics.
A.B., Augustana College, 1908; A.M., Augustana College, 1914; University of Iowa, 1908-1910; University of Chicago, Summer of 1916 and 1918.

REV. HARRY C. CRESSMAN, A.B.,*
435 North Fourth Street.
Instructor in Sociology and Religion.
A.B., Muhlenberg College, 1913; Mount Airy Theological Seminary, 1916.

HAROLD K. MARKS, A.B.
314 North Franklin Street.
Instructor in Music.
A.B., Muhlenberg College, 1907.

FREDERICK H. WORSINGER, Jr., A.B.
133 South Eighth Street.
Instructor in Biology.
A.B., Muhlenberg College, 1919.

ANTHONY S. CORBIERE, Ph.B.
107 North Eleventh Street.
Instructor in Romance Languages.
Ph.B., Muhlenberg College, 1920.

WILLARD D. KLINE, M.D.
24 North Eighth Street.
Examining Physician.
A.B., Muhlenberg College, 1897; A.M., Muhlenberg, 1909; M.D. Jefferson Medical College, 1901.

WILLIAM S. RITTER, B.S.
Physical Director.
B.S., Muhlenberg College, 1916.

*On leave of absence.

MUHLENBERG COLLEGE

This institution was originally called the *Allentown Seminary,* which name it retained until 1864, when, by an Act of the Legislature of Pennsylvania, it was incorporated with full collegiate powers under the title of the "Allentown Collegiate Institute and Military Academy." In the year 1867 its control passed into the hands of a board of trustees, chiefly members of the Evangelical Lutheran Church, who had the charter amended by the Court of Lehigh County, formed themselves into a joint stock company, named the institution MUHLENBERG COLLEGE, after the honored patriarch of the Lutheran Faith in this country, and established a full collegiate course of studies.

Subsequently the institution, by surrender of the stock, and with a charter amended by the proper Court, was put under the direct control of the "Evangelical Lutheran Ministerium of Pennsylvania and Adjacent States." Its trustees are now elected by that body.

LOCATION

Allentown is located fifty-nine miles north of Philadelphia, and ninety miles from New York City. The city has frequent and direct communications with New York, Philadelphia and other important points by L. V. R. R., C. R. R. of N. J. and P. & R. R. R.; and with Philadelphia by means of the express service of the L. V. Traction Co.

THE COLLEGE
ADMISSION TO FRESHMAN CLASS

Graduates of approved high schools which have a four years' course will be admitted on certificate to the courses for which their previous work has fitted them.

Candidates for admission to the Freshman Class, except such as are admitted on certificate from reputable and properly accredited fitting schools, must sustain an examination. The subjects presented for admission must amount in all to 15 units. A unit consists of a year's work in a subject of four one-hour periods or five three-quarter hour periods per week; or "of a year's study in a subject representing approximately a quarter of a full year's work." The subjects which must be presented for admission to the Freshman Class, together with the number of units at which each is valued, are as follows:

FOR COURSE IN ARTS (A.B.)

Latin	3	Units
German, French or Greek	2	"
English	3	"
Mathematics	2½	"
	10½	Units

And at least four and one-half units from the list given below. One more unit of Latin is desirable.

FOR COURSE IN SCIENCE (B.S.)

German, French, Spanish, or Latin	3	Units
English	3	"
Mathematics	3½	"
Chemistry or Physics	1	"
	10½	Units

And at least four and one-half units from the list given below.

FOR COURSE IN PHILOSOPHY (Ph.B.)

German, French, Spanish, or Latin..	2	Units
English	3	"
Mathematics	2½	"
History	3	"
	10½	units

And at least four and one-half units from the list given below.

SUMMARY OF SUBJECTS AND POINTS

	Units
Latin	3
Advanced Latin	1
Greek	2
Advanced Greek	1
English	3
German	2
Advanced German	1
French	2
Advanced French	1
Mathematics	2½
Advanced Algebra	½
Solid Geometry	½
Plane Trigonometry	½
History, a, b, c, d, each	1
Physics	1
Chemistry	1
Physical Geography	½
Physiology	½
Zoology	½
Botany	½
Astronomy	½

Credit will be given for systematic Bible Study, and for certain vocational and commercial subjects.

ADVANCED STANDING

Sophomore Class. Candidates for admission shall be required to satisfy as many semester hours of Freshman work as we require of our own Freshmen. (See page 18). No student, except one coming from another reputable college, shall in any case be admitted to higher standing than the Sophomore Class.

Junior Class. Candidates for admission shall be required to satisfy as many semester hours of Sophomore work as are required of regular Sophomores. (See page 18).

Senior Class. Candidates for admission shall be required to satisfy as many semester hours of Junior work as are required of regular Sophomores. (See page 18.

No bachelor's degree shall be conferred unless the candidate has been in residence at least one year.

ADMISSION SUBJECTS IN DETAIL

Greek—Greek Grammar, and Prose Composition as found in White's First Lessons in Greek, or equivalent, and four books of Xenophon's Anabasis. 2 units.

Advanced Greek—Homer's Iliad, six books, including Prosody. 1 unit.

Latin—Latin Grammar, and Prose Composition as found in Collar and Daniel's First Latin Book, four books of Cæsar's Commentaries, and six orations of Cicero, including *For the Manilian Law.* 3 units.

Advanced Latin—Virgil's Aeneid, Books I-VI, including Prosody. 1 unit.

English—Preparation in English should include four years and at least four periods a week. The number of works read and studied and the kind of selections should follow in general the "Official List."

BOOKS FOR STUDY

GROUP I. DRAMA—*One to be selected.* Shakespeare: Macbeth, Hamlet.

GROUP II. POETRY—*One to be selected.* Milton: L'Allegro, Il Penseroso, Comus.
Book IV of Palgrave's Golden Treasury (*First Series*) with special attention to Wordsworth, Keats, and Shelley.

GROUP III. ORATORY—*One to be selected.* Burke: Speech on Conciliation with America.
Washington's Farewell Address, Webster's First Bunker Hill Oration, and Lincoln's Gettysburg Address.

GROUP IV. ESSAYS—*One to be selected.* Macaulay: Life of Johnson. Carlyle: Essay on Burns, with a brief selection from Burns' Poems.

BOOKS FOR READING

GROUP I. *Two to be selected.* The Old Testament—at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. The Odyssey—with the omission, if desired, of Books I-V, XV, and XVI. The Aeneid. For any book from this group a book from any other group may be substituted.

GROUP II. DRAMA—*Two to be selected.* Shakespeare: Merchant of Venice, As You Like It, Julius Cæsar.

GROUP III. PROSE FICTION—*Two to be selected.* Dickens: A Tale of Two Cities. George Eliot: Silas Marner. Scott: Quentin Durward. Hawthorne: The House of Seven Gables.

GROUP IV. ESSAYS, BIOGRAPHY, ETC.—*Two to be selected.* Addison and Steele: The Sir Roger de Coverly Papers. Irving: The Sketch Book—selections covering about 175 pages. Macaulay: Lord Clive. Parkman: The Oregon Trail.

GROUP V. Poetry—*Two to be selected.* Tennyson: The Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur.

Browning: Cavalier Tunes, the Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, the Pied Piper, "De Gustibus,—" Instans Tyrannus.

Scott: The Lady of the Lake.

Coleridge: The Ancient Mariner; and Arnold: Sohrab and Rustum.

German—German Grammar as found in Joynes-Meissner's Grammar. The student must also have read 250 to 300 pages of German prose and poetry and must have the ability to translate simple English prose into German (about 100 lessons). Some of the books recommended for reading are Glück Auf, Storm's Immensee, Heyse's L'Arrabbiata, Hauff's Das Kalte Herz, Hillern's Hoeher als die Kirche, Zschokke's Der Zerbrochene Krug, Gerstaecker's Germelshausen. 2 units.

Advanced German—As recommended by the Modern Language Association of America, this work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and the subjunctive), and likewise in word order and word formation. 1 unit.

French—French Grammar. The student must also have read 100 to 175 pages of French in graduated texts and 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches, and must have the ability to translate simple English prose into French. Among the texts that we recommend are: Aldrich and Foster's Grammar, Aldrich and Foster's Reader, Sanderson's Through France and the French Syntax, Bacon's Une Semaine à Paris, Laboulaye's Contes Bleus, Feuillet's Roman d' un Jeune Homme Pauvre. 2 units.

Mathematics—Arithmetic including the Metric System, Wentworth's Higher Algebra thru Quadratics, and Wentworth's Plane Geometry, 2½ units.

Advanced Mathemtics—Higher Algebra ½ unit.
Solid Geometry ½ unit.
Plane Trigonometry ½ unit

History—
(a) American History and Civics. 1 unit.
(b) Greek and Roman History. 1 unit.
(c) English History. 1 unit.
(d) General History. 1 unit.

Science—Physical Geography, Physiology, Zoology, Botany and Astronomy will each count one-half unit. Chemistry and Physics, if accompanied by laboratory work, will each count one unit.

COURSES OF INSTRUCTION

There are three courses, under which the various subjects are grouped, the *Classical,* the *Scientific* and the *Philosophical.* With a necessary nucleus of required studies there is combined in the higher classes such a range of electives as may properly be left to the choice of the individual student. But even among electives certain studies are required of or recommended to those who are preparing for theology or medicine. All other students have as wide and free a choice as a liberal or scientific collegiate education, and the attestation which the respective degrees ought justly and historically to give, will wisely permit.

The Course in Arts, ending in the degree A.B., looks to the general liberal culture, which is a prerequisite for any of the learned professions or for specialization in cultural subjects in university work. The studies in the Course in Arts are also those which will most benefit any man seeking a higher education, that is becoming so valuable in any walk of life, and especially the higher business interests of our age.

The Course in Science, ending in the degree B.S., with a broad basis of general knowledge places the Sciences and Mathematics in the center. It offers a good collegiate preparation for special university work in the Sciences, and is of advantage to the future student of medicine. At the same time it offers a good education for young men who intend to devote themselves to any of the industrial arts.

The Course in Philosophy, ending in the degree Ph. B., is planned in response to a growing demand for a course in which Philosophy, History, Economics and

the Modern Languages should hold the most prominent place. This course aims to lay a broad and deep foundation in the subjects considered essential for a successful career in business or the various professions, while imparting the knowledge, the culture and the training absolutely necessary for the solution of the current problems in philosophy and religion, as well as for the full and satisfactory performances of the daily duties of intelligent citzenship. The course is especially offered and recommended to teachers and young men of more advanced age who have never studied the ancient languages, but otherwise have had sufficient preparation to benefit by the study of the many important subjects so intimately connected with the thought, the culture and the progress of modern life.

Special courses may be chosen in those departments where it is deemed advisable. But under no conditions will any student be allowed to do so unless he presents the full requirements for admission to the Freshman class.

ADVISERS

Members of the faculty have been appointed to advise students about their studies, schedules, electives, and kindred matters. Students should consult these advisers at the beginning of each year and receive their approval of the work for the year. The advisers are as follows:

For A.B. Group, Prof. Robert C. Horn.
For B.S. Group, Prof. Albert C. H. Fasig.
For Ph.B. Group, Prof. John D. M. Brown.
For Pre-Med. Group, Prof. Harry D. Bailey.

SYSTEM OF CREDITS FOR GRADUATION

The three degrees, A.B., B.S. and Ph.B., are conferred only on the satisfactory completion of one hundred thirty-six (136) semester hours of work.

SEMESTER HOUR

One hour of lecture or recitation work a week thruout the semester, or two hours of laboratory work a week thruout the semester, are accredited as one semester hour.

Semester hours required of Freshmen	32
Semester hours required of Sophomores	32
Semester hours required of Juniors	28
Semester hours required of Seniors	28
	120

In addition four semester hours of Religion are required in each class. Total number of semester hours required for graduation 136. Physical education is required in all classes; no one will be graduated unless this work has been done satisfactorily.

UNITS FOR PROMOTION

Any student who has completed as many as 36 semester hours of Freshman work at the end of his Freshman year shall be promoted to the Sophomore Class. The work not satisfactorily completed shall be counted as conditions which must be removed during the first term of the following year.

Any student who has completed as many as 66 semester hours of college work at the end of the Sophomore year shall be promoted to the Junior class. The work

not satisfactorily completed shall be counted as conditions which must be removed during the first term of the following year.

Any student who has completed 104 units of college work at the end of his Junior year shall be promoted to the Senior Class. No student will be admitted to the Senior Class if he has any conditions whatsoever.

Any student who fails of promotion to a higher class, must take over again in class those studies in which he has failed. If he shows special fitness he may be allowed to take some studies with the next higher class; but he ranks as a member of the class from which he was not promoted.

REQUIRED COURSES

A.B. GROUP

Freshmen

	Sem. Hrs.
Religion I	4
Greek .....I or II	6
Latin I	6
English .....I, III, IV	6
German .....I or II	6
or	
French I	6
History I	4
Mathematics .....I, II or III, IV	4
Total	36

Sophomores

Religion .....II, III	4
Greek .....II or IV	6
Latin .....II, III	6
English VI and Public Speaking.....I, II	6

	Sem. Hrs.
German III	6
or	
French II	6
History II	4
Chemistry .....I, II	4
	36

JUNIORS

Religion .....IV and V, or VI and VII	
or	4
Greek IV	
Philosophy .....I and II	4
English .....VI or X	4
Physics I	4
Total	16

SENIORS

Ethics IX	
and	
Religion .....X or XI	4
English .....VI or X	4
Total	8

B.S. GROUP

FRESHMEN

Religion I	4
English I	4
German .....I or II	6
or	
French I	6
History I	4
Mathematics VI	6
Chemistry .....III, IV, V	8
Biology I	4
Total	36

Sophomores

	Sem. Hrs.
Religion .....II, III	4
English VI and Public Speaking.....I, II	6
One Language	
German III	4
French II	4
Greek III	4
Mathematics .....VII, VIII	6
Chemistry VI	8
Biology II	8
Total	36

Juniors

Religion .....IV and V, or VI and VII	4
Philosophy .....I, II	4
Physics .....II, III	8
Biology .....III, IV	8
Total	24

Seniors

Ethics .....IX and Religion .....X or XI	4
Chemistry VII	8
Biology .....V, VI	8
Total	20

Ph.B. GROUP

Freshmen

Religion I	4
English .....I, III, IV	6

	Sem. Hrs.
Two Modern Languages	
French I	6
German .....I or II	6
Spanish I	6
History I	4
Mathematics .....I, II or III, IV	4
Chemistry .....III, IV, V	6
or	
Latin I	6
Total	36

Sophomores

Religion .....II, III	4
English VI, and Public Speaking.....I, II	6
Two Modern Languages	
German III	6
French II	6
Spanish II	6
History II	4
Latin IV	2
Mathematics V	4
Economics .....I, II	4
Total	36

Juniors

Religion .....IV, V or VI, VII	4
Philosophy .....I, II	4
English .....VI or X	4
Sociology I	4
Physics I	4
Total	20

SENIORS

	Sem. Hrs.
Ethics IX	
and	
Religion ..... X or XI	4
English ..... VI or X	4
Total	8

NOTE—These are the normal courses; in certain cases substitutions may be allowed by the advisers of the different groups, with the approval of the faculty.

ELECTIVES

The required number of semester hours in the Junior year shall be thirty-two (32), and in the Senior year thirty-two (32). In both of these years a sufficient number of elective units must be chosen, which if added to the required units, will total these numbers. As stated elsewhere, all electives must be handed to the Dean on or before June 1st of the year when the elective course is to be taken. The major part of the electives should be chosen from the related subjects of a group.

Junior Electives

Religion ..... IV, VIII
Ancient Languages—Greek ..... V, VII
Latin ..... V, VI, IX
English ..... VII, IX, XI, XIV
Oratory ..... III, IV
History ..... III, VI
Political Science ..... I, III
Chemistry VIII
Mathematics ..... III, IV, IX, XI, XV
Pedagogy ..... I, II
Music I
Modern Languages—German ..... IV, VI
French III
Spanish III
Italian I
Economics ..... I, II
Sociology ..... I, IV
Physics III
Biology ..... VIII, XI

Senior Electives

Religion ..... VIII, X, XI
Philosophy ..... III, IV
Ancient Languages—Greek ..... V, VII
Latin ..... VII, IX
English ..... VII, IX, XI, XIV
Oratory ..... III, IV
History ..... III, VII
Political Science ..... I, III
Chemistry VIII
Mathematics ..... XI, XVI
Pedagogy ..... III, VII
Music II
Modern Languages—German ..... IV, VI
French IV
Spanish IV
Italian I
Economics ..... I, II
Sociology ..... I, IV
Biology ..... VII, XII
Geology I

RELIGION

Under the Direction of the President

It is essential in a fully developed man that he be conscious of his religious relation, and that he possess adequate and clear ideas of his belief. To aid in this Muhlenberg College has definite courses in religion. These cover the facts and truths of the Bible, and finally endeavor to co-ordinate the moral and religious outlook with modern thought.

Besides these courses there is required daily chapel service. Students are also expected to attend a church of their choice

REQUIRED OF ALL FRESHMEN

I. *Character Studies in the Bible.* (4)

Beginning with a careful study of the Old Testament characters, this course continues in the second term with a survey of the New Testament. The historical facts are correlated with the biographic studies. Two hours per week.—Prof. Fritsch.

REQUIRED OF ALL SOPHOMORES

II. *Bible Doctrines.* (2)

Discussion of the fundamental teachings of the Bible concerning God, Jesus Christ, the Holy Ghost, Redemption, The Church, etc. First semester, two hours.—Mr. H. P. Cressman.

III. *History of the Bible.* (2)

Study of the development of our present Bible in the light of ancient manuscripts. History of translations and versions, and survey of the contents of the Books of the Old and the New Testament. Second semester, two hours.—Mr. H. P. Cressman.

JUNIORS' CHOICE OF ELECTIVES
Either IV or VI, and V or VII; or VIII.

IV. *The Social Ideals of the New Testament.* (2)

A discussion through lectures of the kingdom of God in its relation to modern social problems. First Semester, two hours. —The President.

V. *The Psychology of Religion.* (2)

A study of the main psychological elements in religion. Text-book Pratt, The Religious Consciousness. Second Semester, two hours.—The President.

VI. *Literature of the Bible.* (2)

This course is designed to point out the literary value of the Bible. It includes an analysis of the various books of the Bible and a discussion of its poetry, prose, and philosophy First semester, two hours.—Mr. H. P. Cressman.

VII. *History of Religions.* (2)

Comparative study of the development of the leading religions of the world. The design of this course is to trace the universal religious expressions in the different lands with final application to the missionary problem. Second semester, two hours.—Mr. H. P. Cressman.

VIII. *New Testament Greek and Ecclesiastical Latin.*
Professor Horn and Dr. Ettinger.

For these courses see the statements of the departments of Greek and Latin.

SENIORS
Course IX Required; Course X to XI Required.

IX. *Course in Ethics.* (2)

First semester, two hours.—The President. See Department of Philosophy.

X. *Trends of Thought and Christian Truth.* (2)

A comparison of modern logical positions in Science and Philosophy with Christian Truth. Text. Haas, Trends of Thought and Christian Truth. Second semester, two hours.— The President.

XI. *Christian Theism.* (2)

A course of lectures in the main argument for theism. Second semester, two hours.—The President.

PHILOSOPHY

The President and Dr. Wright.

The purpose of the courses in Philosophy is to develop the power of clear reasoning and accurate statement, to show the value of philosophical system, familiarize with philosophical terms and indicate the movement of philosophical thought.

The study of Psychology is to prepare for a general understanding of the relation of mind and body. The course in Logic is to show the underlying principles of thought and science. History of Philosophy presents the great philosophical problems in their historic connections. Aesthetics is to give an insight into the ideals and principles of the beautiful. Ethics is the necessary supplement to general philosophical study, but also has important practical bearings. All these courses look only to general principles, but prepare for detailed post-graduate university work.

REQUIRED OF ALL JUNIORS

II. *Psychology.* 2nd Semester (2)

DR. WRIGHT.

The problems of the distinction of psychology and physiology, sensations, perceptions, feeling, thought, volition, the self, etc., are studied in outline, preparing for larger, fuller work. Warren, Human Psychology. (Lectures and parallel references to James, Judd, Angell, Seashore.)

I. *Logic* 1st Semester (2)

DR. WRIGHT.

This course embraces the principles of deductive and inductive logic. It discusses the concept, judgment, division, classification, syllogisms, fallacies; agreement, difference, causation, hypothesis, analogy, probability, etc. Sellar's Essentials of Logic.

ELECTIVE FOR SENIORS

III. *History of Philosophy.* .... (4)

THE PRESIDENT.

An intensive course in ancient and modern philosophy on the basis of Cushman, History of Philosophy, Vols. I and II. Lectures, readings and discussions of philosophical problems. Senior elective, two hours, thruout the year.

IV. *Aesthetics.* (2)

PROF. BROWN.

Lectures and reports on the development, the principles, and the relations of the fine arts. A survey of the art of all countries and periods from the Egyptian era to the Twentieth Century, with special attention to the architecture and sculpture of Greece, and the architecture of the Christian Church culminating in the Medieval Cathedral. Readings in Lessing, Ruskin, and Tolstoi.

REQUIRED OF ALL SENIORS

V. *Ethics.* 1st Semester (2)

THE PRESIDENT.

This course includes lectures and discussions on the foundation of ethics and its relation to religion, Hedonism, Rationalism and Personalism; free will, the conscience, virtue, duty, pessimism; and a practical outline of personal and social ethical relations and duties.

PEDAGOGY

Dr. Wright.

The following courses are offered for those students who are preparing to teach after graduation from college. The successful completion of two hundred hours' work will entitle the graduate to the Provisional College Certificate, a license to teach in the public schools of Pennsylvania.

The courses of this department meet the requirements in New York, New Jersey, and the proposed requirements of the new code in Pennsylvania.

ELECTIVE FOR JUNIORS.

I. *History of Education.* 1st Semester (2)

An elementary course in the history of education. The theories and practices of each period are interpreted in the light of the prevailing social conditions and philosophical, scientific, and spiritual tendencies.

II. *History of American Education.* 2nd Semester (2)

An historical survey of education in the United States, the development of the public elementary schools, the Latin Grammar School, the Academy, the High School, the Junior High School, the Vocational School, the Normal School, the work of Horace Mann, Henry Barnard, W. T. Harris, modern tendencies.

ELECTIVE FOR SENIORS.

III. *Educational Psychology.* (6)

It is the aim of this course to present the material which is relevant to the problems of the learning process, to maintain a strictly experimental viewpoint in discussing these problems, to consider tests of intelligence, studying, transfer of training in school work, and the assignment of marks. Senior elective, two hours lecture and recitation and two hours laboratory thruout the year.

IV. *Principles of Education.* (4)

A study of the philosophical and scientific principles underlying the science of education. Senior elective, two hours thruout the year.

V. *Secondary Education.* (4)

This course deals with the development, administration, organization, supervision, and general methods of the junior and senior high school. Senior elective, two hours thruout the year.

VI. *Observation and Practice Teaching.* (2)

This course is open to those seniors whose previous work in the department gives promise of professional success, and who have in addition the recommendation of the departments responsible for the subjects which they expect to teach. One half day a week thruout the year.

VII. *Methods of Teaching Specific Subjects.* (2)

The following courses, covering two semester hours, are offered by the several departments of the college. It is recommended that at least two be taken by the men preparing to teach. Methods of teaching Greek and Latin, English, Natural Sciences, Physics and Chemistry, Modern Languages, History and Government, Mathematics.

MUSIC

Mr. Marks.

This department does not aim to give formal instruction on any specific instrument, much less to turn out so-called "finished musicians." The object of the courses offered is to afford the student a comprehensive knowledge of the theory and history of music so that he can the better appreciate their true place and value as an element of culture in the development of the individual.

ELECTIVE FOR JUNIORS.

I. *The Theory of Music.* (2)

The Elements of Music, Harmony, Form.

ELECTIVE FOR SENIORS.

II. *The History of Music.* (2)

Antiquity, Music of the Early Christian Age, Polyphonic Music, The Lutheran Reformation, Schools of Music, Contemporary Composers, Biography.

THE ANCIENT LANGUAGES
GREEK

Professor Horn.

Conditions in Greek have changed very much in recent years. At present very few students come to college with any previous preparation in Greek. Our courses are therefore arranged primarily for the benefit of those students who begin Greek in college. The aim is to give the student a firm grasp of grammar and an adequate vocabulary, to acquaint him with some of the best specimens of Greek literature, and to give him an intelligent knowledge of Greek history, geography, institutions, and culture. Students who have the desire and the ability will have every opportunity for intensive study of the Greek language and a wide reading of Greek literature; which will afford preparation for graduate work at the larger institutions of learning.

The department is furnished with the best ancient maps. In the college library there will be reserved many books to which students will be frequently referred, and which will be in constant use. The department is supplied with a number of photographs and lantern slides illustrating Greek art and architecture, history and private life; these will be used for the purpose of instruction.

Each member of every class should own the following books: Goodwin, Greek Grammar, revised edit.; Kiepert's Atlas Antiquus, or Putzger's Historical School Atlas, or Grundy's Small Classical Atlas (Oxford University Press), or Ginn and Co.'s Clas-

sical Atlas; Smith's Smaller Classical Dictionary; Liddell and Scott's Greek Lexicon. Notebooks will be needed.

I. *Beginners' Greek.* (6)

This course is required of candidates for the degree of A.B. who enter college without Greek. Such students are required to take Greek for three years. Allen's First Year of Greek, and Xenophon's Anabasis, Mather and Hewitt.

II. *Second Year Greek.* (6)

This course is required of candidates for the A.B. degree who have taken Beginner's Greek, and by those who entered college with two years of Greek. The work is based on Herodotus, Prose Composition, and Homer's Iliad. Farnell's Tales from Herodotus, Pearson's Greek Prose Composition, Benner's Selection from the Iliad.

III. *Greek for Scientific Students.* (4)

This course is elective for scientific students who wish to lay a firm foundation for their scientific vocabulary. Stress will be laid upon transliteration, vocabulary, and word-formation. After the more common Greek words in English have been studied, there will be study of the more special scientific terminology. Hoffman's Everyday Greek.

IV. *Third Year Greek.* (6)

Plato's Apology and Crito. First Semester.

Greek Tragedy. Second Semester.

Required in Junior year of candidates for the degree of A.B. who began Greek in college, and of other candidates for the degree of A.B. in their Sophomore year. Plato's Apology and Crito, Dyer, revised by Seymour; Euripides, Alcestis, Jerram; Sophocles' Antigone, D'Ooge; Jebb's History of Greek Literature.

ELECTIVES FOR JUNIORS AND SENIORS.

V. *Greek New Testament.* (4)

A large part of the Greek New Testament will be read and interpreted. Stress will be laid upon the language and content. There will be lectures and reports. Westcott and Hort's Greek New Testament.

VI. *Greek Drama.* ....(4)

One play each of Aeschylus, Sophocles, Euripides, and Aristophanes. A study of the development of Greek Tragedy and Comedy.

VII. *Greek History.* (4)

The work will include lectures, readings, and reports. Some of the reading will be in Greek.

LATIN

Dean Ettinger.

The courses offered in this department are intended to afford the student such a knowledge of the language, the thought, the life and the antiquities of the Roman people and the "Eternal City" as an intelligent cultured American of today may be justly expected to possess. Without aiming to train Latin philologians or Roman archæologists, which is altogether the business of the university, Muhlenberg College offers such courses based on the study of the masterpieces of Roman Literature as will afford an accurate and comprehensive survey of the character, the history and the achievements of this wonderful people, the important part they played in the development of the human race and their contributions to the Modern Languages, literatures, jurisprudence and government in general. The work in this subject furthermore aims to lay the broad

and deep foundations so necessary for successful post-graduate study.

That the student may receive the fullest benefit from the courses in this department, it is absolutely essential that he bring with him, when entering college, such a knowledge of the fundamentals of Latin Grammar and elementary Latin prose composition, together with a fair and ready command of the vocabulary of the Roman speech as will enable him to take an active and intelligent part in the work of the classroom. In this connection we cannot too strongly emphasize the importance of honest and sufficient work in the preparatory school.

[Allen and Greenough's Latin Grammar is used as the general authority and all students are urged to provide themselves with Harper's Larger Latin Dictionary, as the smaller dictionaries will not suffice for the work in the higher classes. The Roman system of pronunciation is used.]

A. *Beginner's Latin* (6)

Especially offered for the benefit of students of more advanced years who have the ability and the determination to fit themselves for more extended work in Latin. Text books selected to suit conditions. Three hours a week Freshman year.

FRESHMAN LATIN.

I. *Livy—Sallust—Cicero.* (6)

Selections from Livy's History of Rome, Sallust's Catiline and Cicero's Letters, with special attention to the vocabulary, forms and construction. There will be a careful review of the grammar combined with original work in composition on the part of the student. ("Selections from Livy, Sallust, Cicero," edited by Scoon, Mierow and Jones, published by

Allyn and Bacon, Boston. Allen and Greenough's Latin Grammar.) Required of A.B. Freshmen, three hours a week thruout the year.

SOPHOMORE LATIN.

II. *Horace.* (3)

Selections from the Odes, the Satires and the Epistles, especially the Ars Poetica, with special study of the biographical, historical and mythological allusions and frequent practice in scanning the meters of Horace. (Bennett and Rolfe's Complete Horace.) Required of A.B. Sophomores three hours a week, first semester.

III. *Latin Anthology.* (3)

With a formal study of Latin Literature. ("Latin Selections," edited by Smith, revised by Clement, published by Allyn and Bacon, Boston; and Mackail's "Latin Literature," published by Scribner, New York. Required of A.B. Sophomores, three hours a week, second semester.

IV. *What Greece and Rome Have Contributed to Modern Life.* (2)

Based on lectures and readings in standard works on Greek and Roman life and thought. No knowledge of Greek or Latin is needed for this course. Required of all Ph.B. Sophomores, elective for all others. One hour a week thruout the year.

ELECTIVES.

V. *Cicero.* (2)

De Oratore. Selections with a survey of Roman oratory and special reference to the rhetorical value of the work. (Owen's De Oratore, published by Sanborn and Co., Boston.) Elective for Juniors, two hours a week, first semester.

VI. *Plautus and Terence.* (2)

The Captives and the Andria, with an introductory study of Roman Comedy. (Elmer's Captivi and Fairclough's Andria, published by Allyn and Bacon, Boston.) Elective for Juniors, two hours a week, second semester.

VII. *Tacitus.* (2)

The Germania and the Agricola. With a special study of the purpose of these works and the conditions of the period of Roman History. (Church and Brodribb's Agricola and Germania, published by Macmillan, New York.) Elective for Seniors, two hours a week, first semester.

VIII. *Lucretius.* (2)

Selections from De Rerum Natura with a survey of Roman Philosophy. (Lee's Lucretius, Books I-III, published by Macmillan, New York.) Elective for Seniors, two hours a week, second semester.

IX.

Elective courses in Roman Antiquities, Roman Archæology, Early Latin, Roman Law, Ecclesiastical Latin, Latin Literature in English and kindred subjects will be offered whenever a sufficient number of students express a desire for such courses.

ENGLISH

Professors Simpson and Brown.

The courses in English are planned to give in the first two years a thoro drill in composition, oral and written; some acquaintance with the fundamental ideas of literary criticism as applied to the principal types of verse and prose; and a general knowledge of the historical outlines of English literature.

In choosing their electives in the Junior and Senior years students may supplement the required courses (the drama and the novel) by taking one or more courses in English poetry. Students who entered with poor preparation in composition and have not made up the deficiency to their own satisfaction are advised to take that subject as an elective.

ENGLISH COMPOSITION

Professor Simpson.

I. *Freshman Rhetoric.* (4)

Lessons on the principles of rhetoric, simple exposition, letter-writing, news-writing, the use of the library, interpretation of literature, and the method of writing reports. Drill by the use of a handbook like Woolley's or The Century Handbook of Writing. Longer themes and appropriate reading on national ideals and problems. Required of all Freshmen. Two hours both terms.

II. *Journalism.*

The study and practice of news-writing. Elective for Seniors and Juniors.

ENGLISH LITERATURE

Professor Simpson.

III. *American Literature.* (1)

Readings in poetry and prose from the Century Readings. Required of Freshmen for A.B. and Ph.B. degrees. One hour, first term.

IV. *Classic Myths in English Literature.* (1)

Required of all A.B. and Ph.B. Freshmen. One hour, second term.

V. *History of English Literature.* (4)

Study of a textbook of English literature and readings from a standard collection. Required of all Sophomores. Two hours both terms.

VI. *Development of the English Novel.* (4)

Reading of typical prose fiction from Malory to Wells. Lectures on the types of fiction and the development of the novel. Not given 1921-22. Required 1922-23. Seniors and Juniors.

ELECTIVES.

VII. *Anglo-Saxon.*

Intended as a preparation for graduate work and for those who intend to teach English grammar or English literature.

VIII. *Social Ideals in English Literature.* (4)

Study of the social message of such works as Langland's Piers Plowman, More's Utopia, etc. Senior and Junior elective. Two hours both terms.

IX. *Method and Content of English in Secondary Schools.* (1)

Intended as a practical course in the teaching of English. Credit given in the Department of Education. Elective for Seniors and Juniors. One hour, second term.

DRAMA AND GENERAL LITERATURE

Professor Brown.

X. *The Rise and Development of the English Drama.* (4)

A study of the evolution of the English drama from miracle plays to dramas, illustrated by the reading of representative plays of each period including the plays of Shakespeare. Alternates as a required course for Seniors and Juniors with course VI, the Novel.

ELECTIVES.

XI. *Romantic and Victorian Poetry.*

Reading and interpretation of nineteenth century poetry from Wordsworth to Swinburne.

XII. *Masterpieces of Literature.* (1)

The reading and discussion of Homer's Odyssey, Dante's Divine Comedy, and Goethe's Faust, as typical masterpieces of the classical, medieval, and modern periods of literature. Lectures on other masterpieces of literature. One hour, first term.

XIII. *Masterpieces of the Drama.* (1)

The reading and discussion of representative plays from Aeschylus to Ibsen, with special attention to the development of dramatic art through the ages. One hour, second term.

XIV. *Contemporary Literature.* (4)

Lectures on recent Continental Literature. A survey of the novel and drama in modern France, Italy, Spain, Belgium, Holland, Germany, Austria, Scandinavia, and Russia, with the reading of representative masterpieces illustrative of the contemporary literature of each country. This course is designed to acquaint the student with European novelists and dramatists of today. Two hours both terms. Not given 1921-22.

PUBLIC SPEAKING

Professor Brown.

I. *Fundamentals of Oral Expression.* First Semester (1)

Reading aloud. Instruction in the correct use of the voice. Especial attention to eradicating provincialism of speech and impurities of tone. Vocal interpretation of the printed page. Sophomores. One hour, first term.

II. *Extempore Speaking.* Second Semester (1)

An introductory course to train the student to think and speak while on his feet. Sophomores. One hour, second term.

III. *Elementary Course.* (2)

A practical course in public speaking. The aim of this course is to enable the student to speak fluently and effectively before an audience. Seniors and Juniors. Elective, one hour, both terms.

IV. *Advanced Course.* (2)

The preparation and delivery of orations and addresses for special occasions. One hour, both terms. Elective for those who have taken course 3.

THE MODERN LANGUAGES

Professor Fritsch, and Mr. Corbiere.

The study of the Modern Languages is a regular part of the College Course. This department receives a full proportionate share of time and attention, and stands upon the same basis in this respect as Greek, Latin or English; German, French, Spanish and Italian are taught both as living languages to be acquired as a medium of communication and as treasure-houses of scientific, theological and literary material, the key to whose wealth must be owned and readily used by the post-graduate student. Our experience enables us to assert that any student of respectable intellect and industry can acquire the ready use of these languages for conversation, business, or discourse, by embracing the advantages offered him in this department.

In addition to this practical study, a considerable portion of time is given to the direct study of Literature, and of selected works of the greatest authors.

GERMAN DEPARTMENT

Professor Fritsch.

Course Number		Semester Hours
I.	*Beginners.*	(6)
	Joynes-Meissner's German Lesson Grammar. Allen's German Life. Storm's Immensee.	
II.	*Freshmen.*	
	Review of German Grammar. Baumbach's Der Schwiegersohn. Keller's Kleider machen Leute. Gore's German Science Reader.	

III. *Sophomores.* A.B., Ph.B. (6); B.S. (4)

Schiller's Jungfrau von Orleans.
Scheffel's Der Trompeter von Säkkingen.
Greenfield's An Introduction to Chemical German.

IV. *Juniors and Seniors.* (4)

Goethe's Iphigenie auf Tauris.
Heine's Die Harzreise.
Lessing's Minna von Barnhelm.
Lessing's Emilia Galotti.
German Bible.

V. *Juniors and Seniors.* (4)

German Science Reader.—*Scholz.*
A Scientific German Reader.—*Kip.*

VI. *Conversational German.* (2)

Elective for Juniors and Seniors.

VII. *German Literature.*

Elective for Seniors. Priest, History of German Literature.

FRENCH

Mr. Corbiere.

I. *Elementary French.* (6)

Conversation, grammar, composition, dictation, and translation. Easy modern French prose will be read. The student will be trained to understand and to speak the language. For Freshmen.

II. *Intermediate French.* (6)

Rapid reading of modern novels and plays. Composition and conversation based on the reading. French will be the language of the class-room. For Sophomores.

Advanced courses in French will be offered to meet any demand.

SPANISH

Mr. Corbiere.

I. *Elementary Spanish.* (6)

Conversation, grammar, composition, and dictation. The object of this course is to enable the student to attain an accurate reading knowledge of the language, and facility in speaking and understanding it.

II. *Intermediate Spanish.* (6)

Rapid reading of modern Spanish authors. Training in reading and writing business letters with special attention to South American commercial correspondence. The class will be conducted in Spanish.

Advanced courses in Spanish will be offered to meet any demand.

ITALIAN

Professor Brown.

I. *Elementary Italian.* (4)

Conversation, grammar, composition, dictation, and translation. Easy Italian prose will be read. The student will be trained to understand the spoken language, and to express simple ideas idiomatically. This course will be given every third year. Elective.

HISTORY AND POLITICAL SCIENCE

Professor Mueller.

The courses in History and Government are planned to give the student a thorough knowledge of the elements of these sciences and at the same time to aid him in acquiring a critical attitude in examining data.

HISTORY

I. *History of Western Europe.* (4)

Required of all Freshmen. An introductory and the basic course of the department; a survey of European history from the break-up of the Roman Empire; emphasis placed on the institutions of the medieval period, the Reformation, and the French Revolution.

II. *History of Europe Since* 1815. (4)

Required of A.B. and Ph.B. Sophomores. A detailed study of the period; the period of reaction; the movement for liberalizing governments; the unification of Germany and of Italy; the rise of the Balkan states; the struggle for colonies; the World War; the Peace Conference and after.

ELECTIVES.

III. *American History to* 1829. (4)

A study of the causes, method, and course of colonization; the intercolonial wars; colonial friction and revolt; the attainment of independence and the founding of the new government; political development of the country; attention will be paid to the economic and social conditions of the period.

IV. *History of the United States Since* 1829. (4)

A continuation of the preceding course; emergence of the slavery question; struggle between the sections for politi-

cal ascendancy; the Civil War; the period of Reconstruction; industrial and colonial expansion; the European War and problems arising therefrom.

V. *Industrial History of England.* (2)

Industry in early England; rise and development of the manorial system; the towns and the gild system; the enclosure movements; the Industrial Revolution; rise of the modern factory system; trade unionism; social reforms.

VI. *Industrial History of the United States.* (2)

Business aspects of colonization; industrial development under British control; economic causes of the Revolution; problems of the government considered in their social and industrial relations; expansion of the country; rise of the large corporations; governmental control.

VII. *Teachers' Course.* (2)

This course is intended for those expecting to teach history in the secondary schools. Training in historical method, in gathering, organizing and presenting historical material. Open to those having credit for at least twelve semester hours of history.

POLITICAL SCIENCE

I. *Introduction to Political Science.* Elective. (2)

Nature of the state and of government; establishment of government, its powers and scope; the organization of governments with an examination of executive, legislative and judicial functions; the relation of the individual to the state; control of the government by the electorate.

II. *American Government and Politics.* Elective. (2)

Origin and evolution of our governmental institutions; nature and operation of the federal government; survey of state and municipal organization and problems.

III. *Comparative Government.* Elective. (2)

A comparative study of the leading governments of Europe and America; the organization of the governments; the position of the executive, of the legislature, and of the judiciary; the electorate; the relation existing between the central and the local governments.

THE DEPARTMENT OF SOCIOLOGY AND ECONOMICS

Rev. Harry P. Cressman.

The aim of this department is three-fold:

(1) To give the student, as a general foundation, a survey of the principles which govern our economic and social life.

(2) To give, as far as possible, an insight into the practical problems which confront the American people; an insight which no man in our time can afford to be without, especially if he lays any claim to education and culture, and an insight which will foster study, deliberation and observation in later and maturer years.

(3) To give the foundation and elementary drill for post-graduate work.

ECONOMICS

I. *Principles of Economics.* First Semester (2)

Elective for Seniors and Juniors; required of Ph.B. Sophomores. Course designed to acquaint the student with the agents of production, laws of supply and demand, exchange and value, theory of international trade and distribution of wealth.

II. *Labor Problems.* Second Semester (2)

Study of the conditions and problems of labor with special reference to the U. S.—wages, hours of labor, unemployment, workmen's compensation and insurance. Solution of problems suggested by trade unions, socialism, co-operative movements, and other means will be considered. Required of Ph.B. Sophomores, elective for Juniors and Seniors.

SOCIOLOGY

I. *Principles of Sociology.* (4)

Discussion of the general laws of society and their influence on individuals, groups, social customs and institutions. Influence of physical environment, heredity and psychological influences will be considered. Required of Ph.B. Juniors; elective for other Juniors and Seniors. Two hours throughout year.

II. *American Race and Social Problems.* 1st Semester (2)

Study of some of our greatest present day problems. Marriage and divorce, class struggle with special reference to the negro, Indian and immigrant. Organizations and plans proposed and being used to solve these problems reviewed and discussed. Open to those who have taken Sociology I.

III. *Social Pathology.* 2nd Semester (2)

Problems of poverty and crime, their causes, effect and relations. Charity organizations, social service, prisons, etc., reviewed. Social degeneration, its causes, effect and extent considered. Open to those who have taken Sociology I.

IV. *Rural Sociology.* 2nd Semester (2)

Discussion of the rural problems. Relation of city and country. Place and value of community centers as schools, churches, playgrounds, etc., and their possibilities as agents of community welfare.

DEPARTMENT OF MATHEMATICS AND PHYSICS

Professor Bauman and Professor Anderson.

The Department aims at the following results:

1. To train the mind to reason clearly and logically.

2. To teach the student to be exact, quick of comprehension, and systematic in presentation.

3. To impart facility in applying mathematical principles to practical problems.

4. To lay the foundation for future special work in the various branches of the subject.

MATHEMATICS FOR A.B. and Ph.B. FRESHMEN

Professor Bauman.

I. *Higher Algebra.* 1st Semester (2)

The A.B. and Ph.B. students will have two hours a week in Higher Algebra in the first semester, beginning with Indeterminate coefficients through binominal theorems, logarithms, permutations and combinations, series, theory of equations, including graphical representation of functions, Horner's Theorem, Sturm's theorem and Cardan's solution of cubic equations. The necessary preparation for this course will be Elementary Algebra, including quadratic equations, arithmetical, geometrical and harmonical series.

II. *Solid Geometry.* 2nd Semester (2)

The A.B. and Ph.B. students will have two hours a week in Solid Geometry through the second semester and will take sixth, seventh, and eighth books of Wentworth's Revised Solid Geometry, comprising lines and planes in space, polyhedral angle, prisms, pyramids, similar polyhedrons, cylinders, cones, prismatoid formula, circles of spheres, spherical triangles, spherical polygons, areas of spherical triangles, and of surface of sphere, volume of spheres, spherical sectors and spherical segments, with numerous practical problems as applications of the theoretical principles studied.

III. *Physiography.* 1st Semester (2)

Freshmen who present Higher Algebra for entrance will take this course of two hours a week for the first semester. The course may also be elected by Juniors. It is intended for those who owing to circumstances cannot elect Geology, Astronomy, and Meteorology as principal subjects, and yet desire a fair knowledge of the facts and principles of these sciences.

IV. *Meteorology.* 2nd Semester (2)

This embraces the elements of the science as given in Davis' Elementary Meteorology, together with practical work. Required of Freshmen who offer Solid Goemetry for entrance.

MATHEMATICS FOR Ph.B. SOPHOMORES

Professor Bauman.

V. *Trigonometry.* (4)

The Ph.B students will use Wentworth's "Trigonometry, Surveying and Navigation," and practically cover the whole text-book, including solutions of right angled triangles, goniometry, solution of oblique angled triangles, numerous practical applications in the measurement of heights and distances, right and oblique spherical triangles, application to simple astronomical problems, triangulation, land surveying, leveling, railroad surveying, division of land, with many practical problems and some illustrative field work, plane sailing, parallel and middle latitude sailing, traverse sailing, and some nautical astronomy.

MATHEMATICS FOR B.S. FRESHMEN AND SOPHOMORES

Professor Anderson.

VI. *Mathematical Analysis.* (6)

A general course in mathematics. A course designed to give the student who may not wish to specialize in mathematics o good knowledge of algebra, trigonometry and analytical geometry. Required of B.S. Freshmen.

VII. *College Algebra.* 1st Semester (3)

Solution of higher equations; infinite series; permutations and combinations; determinants; partial fractions; inequalities. Required of B.S. Sophomores.

VIII. *Analytical Geometry.* 2nd Semester (3)

Advanced course. Equations of straight lines and conic sections; transcendental and parametric equations; introduction to solid analytical geometry. Required of B.S. Sophomores.

ELECTIVES.

Professor Anderson.

IX. *Calculus.* (6)

A course for the student to become acquainted with the general principles of the derivative, differential, indefinite and

definite integral; how to differentiate and integrate the simplest functions and to evaluate numerically certain definite integrals; applications to problems in mechanics, maxima and minima briefly discussed. Elective for Juniors and Seniors.

X. *Differential Equation* (4)

The course deals with the solutions of ordinary differential equations. Elective for Seniors. Not given in 1921-22.

XI. *Surveying.* (2)

Use of chains, compass, transit and level. Field work includes survey of areas, differential and profile leveling, use of stadia, elevation of objects, etc. Complete notebook record required. Elective for Juniors and Seniors.

XII. *Mechanical Drawing.* (4)

Freehand lettering; isometric and cabinet drawing; representation of objects; dimensioning; sketching and dimensioning of machine parts; detail and assembly drawing. Elective for Juniors.

XIII. *Descriptive Geometry.* (4)

Problems relating to the point, line, and plane; solids and intersections of solids; application to solution of practical problems. Prerequisite—Mechanical Drawing. Elective for Seniors.

XIV. *Astronomy.* (2)

General descriptive astronomy with laboratory work, including study of the heavens by means of charts, the celestial sphere, photographs of planets, the telescope and spectroscope. Only knowledge of algebra required. Elective for Juniors and Seniors. Not given 1921-22.

XV. *Meteorology.* (4)

A study of atmospheric movements; weather maps and weather predictions; meteorological instruments; humidity and precipitation; climate. Work divided into lecture, recitation and laboratory work. Elective for Juniors and Seniors. Not given 1921-22.

XVI. *Teaching of Mathematics.* (2)

Discussion of the fundamental concepts of algebra and geometry which present special difficulty of teaching; method of approach in teaching geometry; educational value of high school mathematics; applied problem movement; short history of mathematics. Junior and Senior H. S. Mathematics, Elective for Seniors.

PHYSICS

Professor Anderson.

REQUIRED OF A.B. AND PH.B. JUNIORS.

I. *General Physics.* (4)

Lectures and recitations. The endeavor is made to present the subject in such a way that its different branches may be correlated in one science of energy. The lectures are illustrated and all the experiments planned to keep the above object in view.

The phenomena and practical applications based on physical principles with which the student comes in daily contact are especially emphasized.

REQUIRED OF B.S. JUNIORS.

II. *College Physics.* (4)

Standard college course.

III. *Laboratory Work in General Physics.* (4)

The experiments are for the most part quantitative in character and give practice in mechanics, heat, light, electricity and sound. The laboratory work will be prefaced by several lectures on methods, determination and use of data, graphic methods, interpretation of results, etc. Elective for A.B. and Ph.B., required of B.S. Juniors.

DEPARTMENT OF CHEMISTRY

Professor Fasig.

The course in Chemistry is intended to be intensive rather than extensive. The endeavor is made to teach *thoroughly* and impart a clear-cut knowledge of the *fundamentals* of the above-named science. The attention of the student is also directed to its practical applications.

The primary object of the course in general chemistry is to furnish the student a basis for the explanation of the phenomena presented to him in his daily life. The elective work will prepare the student for advanced work after graduation.

In the laboratories the student receives the *personal* attention of the professor and instructor during the laboratory period. The laboratories are open, however from nine a. m. to five p. m. every day, so that work may be done during any part of the day, provided that it will not interfere with other classes.

Stress is laid on the keeping of a notebook on both the lecture and laboratory work. The notebooks are carefully corrected and returned to the student with suggestions and references to the work in hand. If the laboratory work be poorly done, it will be repeated until good results are obtained. But if after earnest effort the pupil cannot find the error the professor will review with him that part of the work in which the error occurs.

REQUIRED OF A.B. SOPHOMORES.

I. *General Course.* (2)

This course constitutes an introduction to the study of chemistry. No previous knowledge of the subject will be assumed. The work of the first term is devoted to the laws and

theories on which the science is built. The remainder of the year is devoted to the study of the metals, their occurrence, preparation and industrial value.

II. *Laboratory General Chemistry.* (2)

The work will be devoted particularly to the study of acids, bases, salts, air, water and a short course in the separation of the metallic and acid radicals.

REQUIRED OF B.S. AND PH.B. FRESHMEN.

III. *General Chemistry for B.S. Students.* (4)

This is a more advanced and thoro course than I.

IV. *Laboratory—General Chemistry.* 1st Semester (2)

This course is particularly designed to supplement course III. It is designed to illustrate and elucidate the fundamental principles of the science; to exemplify the simpler methods of chemical preparation and to develop the manipulative skill of the student.

V. *Laboratory—Qualitative Analysis.* Second Semester (2)

This is mainly a laboratory course, with frequent conferences and quizzes on the chemical reactions involved and lecture demonstrations on the practical work. The separation of the more common metallic and acid radicals forms a basis of the laboratory work. The endeavor is made to have the work so done that the student will be enabled to analyze any mineral or inorganic technical product, soluble or insoluble. Prerequisite IV.

REQUIRED OF B.S. SOPHOMORES; ELECTIVE FOR OTHERS.

VI. *Quantitative Analysis.* (Lectures, Recitations and Laboratory Work.) (8)

The course will be divided into three parts: (1) Calibration of weights, flasks, etc. (2) Volumetric analysis. (3) Gravimetric analysis. While the more familiar determinations in these groups will be required, the amount of ground covered in each will depend on the student's ability and the time he can devote to the subject. Prerequisites III, IV, V.

REQUIRED OF B.S. SENIORS.

VII. *Organic Chemistry.* (8)

Lectures, recitations and laboratory work. The lecture and laboratory courses combined give a thorough knowledge of the elementary compounds of carbon. Textbook: Organic Chemistry, Perkins and Kipping. Prerequisite III, IV.

ELECTIVE FOR JUNIORS AND SENIORS.

VIII. *Technical Analysis.* (6)

Cement, clays, iron, steel, soap, oils, fuels, ores, and gas analysis. In many of the above, such as cement and clays the physical tests will also be made. Prerequisites III, IV, V, VI.

DEPARTMENT OF BIOLOGY

Professor Bailey and Mr. Worsinger.

The courses of the Biological Department have been arranged to offer work to the students throughout the Freshman, Sophomore, Junior and Senior years.

The courses have been designed to meet the requirements of those students who desire general collegiate culture and also those who expect to enter the professions of medicine and teaching.

Throughout the work emphasis will be laid upon the economic features of the science and whenever possible such forms of life will be chosen for study as possess economic as well as systematic value. Especial pains will be taken to familiarize the student with those forms of animals, insects, trees and flowers which bear some relation to man.

Considerable biological material has been mounted up for class demonstration purposes and will be used regularly in each of the courses. A large number of lantern slides has also been accumulated and in each

of the courses the class and laboratory work will be supplemented by illustrated lectures.

Following is a brief outline of the courses offered:

REQUIRED OF B.S. FRESHMEN.

I. *Botany.* ....Throughout the year (4)

The course includes Cryptogamic and Phanerogamic Botany. Emphasis is laid on physiology, ecology, structure and classification. Special attention is directed to such plants as bear an economic relation to man. Field work is done during the spring months.

REQUIRED OF B.S. SOPHOMORES.

II. *Zoology.* Throughout the year (8)

The morphology, habits, life history and classification of representative invertebrate and vertebrate animals are studied. Emphasis is laid upon thre principles of heredity, the evidence and factors of evolution, and interesting instances of parasitism. Regular dissection is required. The Biological Museum contains mounted and preserved specimens of most of the local species of vertebrates and invertebrates.

REQUIRED OF B.S. JUNIORS.

III. *Bacteriology.* First Semester (4)

The cause and prevention of disease, the isolation and study of the various forms of bacteria in water, milk, soil and air, the problems of water purification and sewage disposal, plant diseases, etc., are subjects included in this course. All of the important tests and methods of study evolved during the war are employed.

IV. *Physiology and Hygiene.* Second Semester (4)

This course acquaints the student with the functions of the human body and the methods of personal hygiene. Field and laboratory work supplement book study. The course is intimately related to the daily life of the student.

REQUIRED OF B.S. SENIORS.

V. *Histology.* First Semester (4)

Methods of fixing, embedding, sectioning, staining, mounting, and studying mammalian tissues constitute the work of this course. Microtomes, compound microscopes and other instruments are available for the laboratory work.

VI. *Embryology.* Second Semester (4)

A study of the origin and development of the organs of the frog, chick and man is made. Problems relating to the maturation, fertilization and segmentation of the egg, the origin of the germ layers, and the early development of the principal vertebrate tissues and organs are considered. The student is required to incubate the egg of at least one vertebrate, and to imbed, section, and study the embryo of same.

ELECTIVE COURSES.

VII. *General Biology.* Throughout the Year (4)

This course is designed to meet the needs of those students, who because of other requirements have not been able to elect the regular biological courses but who nevertheless desire to obtain a general knowledge of biological principles and phenomena before leaving college. The course aims to cover, in brief fashion, all of the important phases of biology. It is in no respect a substitute for the regular courses. Subjects such as the following receive attention: Botany, Bacteriology, Forestry, Plant Diseases, Zoology, Distribution of Plants and Animals, Economic Biology. Evolution, Paleontology. Elective for Seniors.

VIII. *Comparative Anatomy of Vertebrates.* 1st Semester (4)

The course consists of the dissection and study of fish, amphibians, reptiles, birds and mammals. The organs and systems of each animal are carefully compared with those of the other animals studied.

IX. *Economic Entomology.* 2nd Semester (4)

The life histories of our most important beneficial and injurious insects are studied. Stress is laid on methods of control, and, as far as possible, practical work is done in the field.

A mounted collection of 25,000 forms aids the student in this course.

X. *Plant Histology.* 1st Semester (4)

Methods of staining, mounting and preserving plant material —algae, fungi, mosses, ferns and flowering plants—are studied. Each student is required to make his own collection of plant mounts.

XI. *Methods of Teaching Biology.* 2nd Semester (2)

This course is intended for prospective teachers of the Biological Sciences. Methods of class room and laboratory instruction, the equipment and care of a laboratory, the collection and preservation of field materials, etc., are included in the work.

XII. *Photography.* Throughout the Year (4)

During 1920-1921 and 1921-1922 advanced work in photography is offered. The work includes the photography of field and laboratory biological material, the making of lantern slides and photomicrographs, printing, enlarging, reduction, color photography, etc.

DEPARTMENT OF GEOLOGY

Professor Bailey and Mr. Worsinger.

I. *Geology.* Throughout the Year (4)

Elective for Seniors.

The course comprises work in structural, dynamic and historical Geology. Constant use of the excellent collection of rock specimens in the Geological Museum is made. Maps are drawn, showing the relations of land and sea during each geological period, and the deposited strata and their included organisms will be carefully studied. A complete geological study of Lehigh County is made, the class taking local field trips and noting outcrops of the different rock formations. A series of charts and a collection of named fossils greatly aids the students in comprehending the plant and animal life of past geological times.

PHYSICAL EDUCATION

Dr. Kline and Mr. Ritter.

The aim of this department is to guide the normal student to grow symmetrically and to advise the defective who are weak from heredity, poor development or ignorance how to correct these defects, and to quicken the mind to ready action through promptness in class drill.

The tabulation of the present system of medical examinations and physical measurements show the student wherein he exceeds or falls below the average. In addition to the general gymnasium exercises specific directions are given to overcome hereditary or acquired defects. The three-fold record of each student is tabulated and kept by the standard card system and at varying intervals revised by re-examinations.

The well-equipped FonDersmith Gymnasium, with adjoining baths, dressing room and lockers, is provided for this work.

A large field for baseball, football, quarter mile running track and tennis courts offer the very best facilities for out-door athletics.

During the fall and spring all students are given outdoor work and during the winter inside work in the gymnasium. Additional and special training are offered to all upper classmen.

REQUIRED OF ALL NEW STUDENTS.

A. *Physical Examination.*

Defective men have prescribed exercises to correct defects caused by heredity or environment.

Required of all Students Each Year.

I. *Callisthenics* (Free Exercises). Throughout the year. 1 hr.

Lessons for corrective and general development work. The course will cover the use of wands, clubs, dumb bells, and free hand drills.

II. *Recreational Games.* Throughout the Year. 1 hr.

This course will include instructions and practical work in Mass Games, Track and Field Athletics, Basketball.

ELECTIVE FOR JUNIORS—THEORY.

III. *Education by Plays and Games.* First Semester. 1 hr.

This course embraces a brief history and place of play in education. A curriculum of plays and games graded by age from infancy to middle teens. Not only considering age but also sex and seasons as well.

IV. *Ailments Common to Athletes and First Aid.* Second Semester. 1 hr.

This course is designed to cover the whole field of athletic training.

What is training? What is conditioning? Treatment of injuries.

ELECTIVE FOR SENIORS—THEORY.

V. *Best Methods of Teaching Gymnastics.* 1st Semester. 1 hr.

This course is intended for prospective teachers. It endeavors to prove that the laws of pedagogy are as applicable to teaching gymnastics as to teaching the three R's.

Why do we teach gymnastics? What shall we teach?

VI. *Physiology of Muscular Exercise.* 2nd Semester. 1 hr.

This course endeavors to point out the great changes and adjustments in the body necessary in carrying out efficient muscular exercise.

SPECIAL LECTURES

A number of special lectures are delivered during the college year by persons eminent for ability in various directions; these are free to all students and alumni of the institution, and have been largely and profitably attended. This feature will be carefully maintained in the future as a source of instruction in specialties, in recent topics of interest, and for general information upon subjects not embraced in the ordinary department work.

LIBRARY AND READING ROOM

Professor Simpson, Librarian.

The College Library is open as follows: 9 to 12 a. m., 2 to 5 and 7 to 9 p. m., and Saturdays 9 to 11 a. m. All books are on open shelves freely accessible to all students. The professors of philosophy, history, sociology and literature assign a large amount of reading to be done in the library; four or more copies of the most necessary books are provided for this collateral reading.

The books in the reading room, which is open at all times, include the latest edition of the Encyclopedia Britannica; other encyclopedias, Americana, International, Chambers, etc.; Warner Library of the World's Best Literature; bound volumes of Harper's Magazine, numbers 1 to 103, and the revised edition of The Century Dictionary and Atlas. The number of books now listed in the library is: Sophronian Library, 3407; Euterpean Library, 5184; college, 16,000; total, 24,591. The number of volumes added since January 1, 1920, and entered to February 5, 1921, is 1176.

The library received a gift from the library of Dr. Theodore A. Schmauk, of which 451 volumes have been entered. Fifty-one volumes of Annals of the American Academy of Political and Social Science were presented by Mr. H. M. M. Richards, and a number of volumes of American magazines. Other gifts were received from Dr. John A. W. Haas, 23 volumes; S. G. Simpson, 20; Dr. H. S. Seip, 98; Miss Mame Chubbuck, 30.

The work of binding the back numbers of the periodicals should begin at once. The danger constantly increases that some numbers will be lost and the sets rendered unfit for binding.

Nearly all the pamphlets relating to the Great War have been placed in pamphlet binders and shelved with the books on the topic.

Besides the library room, one room on the same floor and two rooms on the third floor are occupied with government reports, state documents, college publications, etc.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Young Men's Christian Association conducts many lines of religious work. Study groups in missions and kindred problems meet every week under the general supervision of a member of the faculty. There are occasional addresses by religious workers of national reputation, and weekly chapel talks by prominent clergymen and laymen of Allentown and vicinity. Sunday school work is actively engaged in, and regular church attendance encouraged. An efficient employment bureau secures positions for students wish-

ing to earn money on Saturdays and holidays. Members of the college Y. M. C. A. may use the large swimming pool, the gymnasium, and the reading and game rooms of the city association. Religious literature is distributed free to all students.

This assocaition stands definitely for a life governed by Christian principles; every effort is made to exert a wholesome guiding influence upon new students, and to inculcate in them ideals of true Christian manhood. The faculty commends heartily the work of the association.

COMMON ROOM

A large room on the third floor of the Administration Building is equipped with comfortable furniture. a moving-picture machine, a piano, and a victrola, and maintained by the Women's Auxiliary of the college. This rest room is designed as a general gathering place for all students.

ATHLETICS

The athletic equipment of the college comprises a gymnasium fitted with all apparatus necessary for class work, a football field, baseball diamond, quarter-mile cinder track, pits for pole-vaulting and jumping, and a group of tennis courts.

The football, basketball, and track teams have achieved unusual distinction in intercollegiate contests with colleges and universities in the Middle Atlantic States. Tennis tournaments are held every spring. There are also cross country and baseball teams. Interclass games are played at various times throughout the year, and prizes are awarded to the winning classes.

Every man who is physically fitted to compete in any of these sports is encouraged to try for a place on the varsity team. The college believes in having as many students as possible take part in athletic contests in order that the body as well as the mind may be trained.

STUDENT PUBLICATIONS

The following publications are issued by the students:

The Muhlenberg Weekly. A weekly college paper devoted to local interests of the student body, and forming a record of passing events, athletic, social and otherwise, including general activities among the Alumni.

The Ciarla. An annual illustrated volume issued in June by the Junior Class, and presenting a summary of student life during the current scholastic year.

STUDENT ORGANIZATIONS

Musical

Professor Marks of the Department of Music is faculty director of all musical organizations.

The Glee Club makes regular concert tours in Pennsylvania, including in its itinerary every season Scranton, Hazleton, Philadelphia, Reading, Lancaster, Harrisburg, Lebanon, Allentown and many other cities. The Club sings annually to audiences of more than ten thousand.

The Mandolin Club accompanies the Glee Club on tour, and makes occasional concert tours of its own.

The Band plays at all important athletic contests, and takes part in various parades throughout the year.

Dramatic

An active dramatic organization, *The Cue and Quill Club*, affords training in acting and in staging plays, and presents either a group of one-act plays, or a three or four-act comedy, during Commencement Week.

Fraternities

Three fraternities, Alpha Tau Omega, Phi Kappa Tau, Delta Theta, two national and one local, have chapters and chapter houses at Muhlenberg College.

Public Speaking

Muhlenberg College is a member of the Pennsylvania Intercollegiate Oratorical Union, other members of which are Swarthmore, Franklin and Marshall, Gettysburg, Ursinus and Lafayette. During the past ten years Muhlenberg College has won first prize three times and second prize five times. The Junior Oratorical Contest, held during Commencement Week, affords another opportunity for training in speaking before an audience. Students are encouraged to enter all these speaking contests.

SITUATION

Muhlenberg College is situated in the rapidly growing western section of the city. The modern buildings are in the midst of a campus of seventy-two acres, upon a ridge, from which are obtained splendid views of the surrounding country. The conspicuous location

of the college, amid beautiful natural surroundings, can hardly be surpassed by any educational institution.

THE ADMINISTRATION BUILDING

This building occupies the highest part of the new college grounds, facing south, and is 190 feet long and 65 feet wide, three stories high, with a basement. It is built of a pink granolithic stone, with Indiana limestone trimmings, in the English Renaissance style of architecture. The facade shows a central tower, which is flanked with gables on each end, the intervening wall being topped off with dormer windows.

The building is of what is known as "slow-burning construction," with iron staircases, heated by steam and lighted with electricity, supplied from a central plant. Its appointments and furnishings are modern throughout.

The basement contains a gymnasium with bath and locker-rooms, a basketball room, bicycle and coat rooms, lunch rooms, and Physical Director's room. The first floor contains a reception room, offices for the President and Treasurer, the latter connecting with a fire-proof vault, chapel, and five lecture rooms.

The second floor contains the library and reading rooms, physical laboratories, and four lecture rooms.

The third floor contains the biological laboratory, the common room, German Lecture room, and rooms for "The Muhlenberg" and Press Club, and the museums of geology and botany.

THE DORMITORIES

The general scheme of the dormitories is that of a rectangle, following a typical Oxford or Cambridge system. They are divided into sections accommodating from twelve to sixteen students each, and are entered from the quadrangle through separate doorways, each section having its own hall and staircase with rooms on either side. All the sections are supplied on each floor with steam heat, electric light, hot and cold water, shower baths, and toilet-rooms.

The main entrance to the dormitories is flanked with towers which contain, on the first floor, an office, a reception room, a janitor's room and a baggage room.

The front elevation of the principal dormitory is 183 feet long and three stories high. This building is called "Berks Hall," in honor of the Lutherans of Berks County, Pa., who undertook to raise $35,000 to pay for its erection. It accommodates seventy-five students.

Mrs. Anna Louisa Rhoads, of Reading, Pa., has erected an additional section along the eastern side of the rectangle as a memorial for her son, John Warren Rhoads.

Luther League Hall has been erected by the Luther Leagues of the Ministerium of Pennsylvania. This section of the Dormitory has begun the western side of the rectangle.

Three new sections of the dormitories were added in the fall of 1914.

CHEMICAL LABORATORY

A completely equipped power-plant furnishes an ample supply of steam heat and electric light for all the buildings on the college grounds. In this building

provision has been made for the chemical laboratory and dissection room, until the chemical laboratory can be housed in a building of its own.

THE COMMONS

The Athletic Association has erected a beautiful, well-equipped and commodious commons, where all dormitory students are required to take their meals. The price of the board is $5.50 per week. No deductions from this price will be made except in cases where students are absent for one full week or more.

RESIDENCES

Separate homes for the President and Treasurer are situated on the Campus. These houses are new brick structure, as nearly fireprof as possible and thoroughly modern in appointments.

URGENT NEEDS OF THE COLLEGE ENDOWMENT

At this time when the oldest, the largest and the wealthiest colleges and universities in the country are pleading poverty and are asking millions of dollars for endowment, Muhlenberg College asks her alumni, friends and the public in general for such an increase in her endowment as will enable her to pay her professors a living wage in return for the loving loyalty and the sacrificing service which they have given her, and through her to Church and State, during the fifty years of her existence. Larger endowments for increased salaries is the first and the most crying need of the college.

LIBRARY

Books are the tools of the student and the teacher. In order that there may be the proper expansion of courses in keeping with the scholarship of the times, a large collection of all the latest books in each department, so arranged and housed that the world's knowledge on any particular subject is easily accessible to student and teacher, is absolutely necessary. A commodious, well-appointed library building, together with a permanent fund for the purchase of new books, accordingly, is our second great need.

SCIENCE BUILDING

The third great need is a Science Building. The work in all the departments of science is greatly inconvenienced, if not at times hampered, by the limited quarters of the laboratories, the recitation rooms and the museums, caused by lack of a separate building which should be used solely for the rapidly expanding courses in science.

CHAPEL AND AUDITORIUM

Another pressing need of the college is a building which would be the social centre of the institution. In addition to the chapel and an auditorium for lectures and commencements such a building should furnish a home for all student organizations and the college activities, such as the Y. M. C. A., the Glee Club, the Muhlenberg Weekly, and all other regular interests of college life, thus relieving the cramped condition of the Administration Building and enabling each professor to have a permanent room of his own instead of traveling about and using the rooms of other teachers, as many are at present compelled to do.

GYMNASIUM

To meet the ever-growing needs of the department of athletics, a department that has done so much to bring Muhlenberg College to the attention of the educational world and of the public in general, a comfortable, well-equipped gymnasium is urgently needed.

These are the most immediate needs of the college. It is most earnestly hoped that the friends of the institution, the Lutheran Church, and the public in general will appreciate these needs and will liberally provide the funds for the equipment so urgently needed because of the rapid increase of students and the ever-expanding activities of the institution. Men of means can erect no monument to their memory more worthy in purpose, more helpful in blessing, more lasting in honor, than will be a general contribution to the endowment fund or the erection of one of these buildings.

PRIZES

During the year the following prizes have been announced, competition for which is subject to the rules of the Faculty, and the assigning of which is in the hands of committees appointed for this purpose. The decision will be announced on Commencement Day. Friends of the institution are urged to increase the number of these prizes, especially for the lower classes.

The Clayton K. Bernheim Honor Medal, to be assigned to that member of the Senior Class having attained the highest average grade during the year, in all his studies. Presented by Oscar F. Bernheim, '92.

The President's Senior Prize. A prize of Ten Dollars to be awarded to that member of the Senior Class writing the best original essay in the department of philosophy. Subject for

1921: "The Influence of Evolution upon Philosophic Thought." Presented by President J. A. W. Haas, D.D., LL.D.

The Clemmie L. Ulrich Oratorical Prize. Twenty-five Dollars to that member of the Junior Class making the best speech in English, as to manner and matter, at the Junior Contest. Presented by bequest of Clemmie L. Ulrich, Annville, Pa.

A Second Junior Oratorical Prize, given by the class of 1908, to be awarded to the man making the second best speech in English.

The President's Junior Prize. A prize of Ten Dollars to be awarded to that member of the Junior Class presenting the best original essay in the department of English. Subject for 1921: "The Common Man in the Drama of Today." Presented by President J. A. W. Haas, D.D., LL.D.

The Reuben D. Wenrich, M.D., Prize. A prize of Ten Dollars to be awarded to that member of the Sophomore Class having attained the highest average grade in all his studies.

The Reuben J. Butz Botanical Prize of Ten Dollars given to that student who makes the best collection of local flora (including ferns). Open to all students of Botany.

The Charles D. Boschen German Prize of Ten Dollars presented to that member of the Sophomore Class passing the best examination in such special work as may be assigned in the German Department.

DEGREES CONFERRED AT THE LAST COMMENCEMENT

Doctor of Music.

H. Alexander Matthews, Philadelphia.

Doctor of Pedagogy.

H. W. Dodd, Superintendent of Schools, Allentown.
H. C. Deininger, School System of Philadelphia.

Doctor of Literature.

George T. Ettinger, Professor of Latin, Muhlenberg College.

Doctor of Divinity.

John A. Bauman, Professor of Mathematics, Muhlenberg College.
Harry C. Lilly, Sec. Federated Church of Allentown, Allentown.
John H. Raker, Supt. Good Shepherd Home, Allentown.
George Drach, Sec. Board of Foreign Missions of the Lutheran Church, Philadelphia.
Emil E. Fischer, Professor of Ethics, Lutheran Theological Seminary, Philadelphia.

STUDENT CLASS HONORS

Senior Class: Luther J. Deck, Earl S. Erb, Richard R. Gates, Raymond A. Green. Honorable Mention: Anthony S. Corbiere and Otto F. Nolde.

Junior Class: John T. Bauer, Amos A. Ettinger, Alfred C. Ettinger, Joseph E. Laury, Reuben F. Longacre.

Sophomore Class: Harold P. Knauss, Russell W. Stine.

Freshman Class: George B. Balmer, Horace S. Mann, Christian E. Mills, Raymond C. Miller. *Specials*: Elmer E. McKee and John V. Shankweiler.

THE ADMINISTRATION OF THE COLLEGE

GOVERNMENT

In the administration of the government of the College, no unnecessary or arbitrary regulations are established, but only such laws are insisted upon as are necessary for the common life of Christian gentlemen. No one whose influence is against the general order of the College can expect to continue in attendance.

Whenever dismissal is necessitated as the due punishment corresponding to the offense, all advantages are forfeited. Severer discipline is however avoided, if it be in any way possible.

The Student Council, chosen by the student body, maintains good order in the college and in the dormitories, enforces proper conduct among the students, and disciplines any student who refuses to obey regulations.

REGISTRATION

On the first day of the fall term, after the applicant for admission has appeared before the Entrance Committee, he shall report in person at the office of the Treasurer before 1 p. m., and register his full name and home address, as well as the course he expects to take. A registration fee of $10.00 will be required in advance.

ELECTIVES

On or before June 1st of each year, every student shall hand to the Dean a list of the subjects that he elects for the following year, which subjects thus be-

come a part of his regular work. All such elections are subject to the approval of the Faculty.

EXAMINATIONS

All the classes are examined twice a year, and the results made to count as a proper factor in the class standing.

TERM REPORTS

Reports of standing in class, conduct, attendance, and the like, are sent to parents or guardians after each examination; and if necessary, special correspondence is had in the intervals. In the case of students who fall below grade, monthly reports are sent to parents or guardians.

SCHOLARSHIPS

Any individual or congregation contributing $2,000 to the College will receive a permanent scholarship, the income of which will be credited to the tuition of the holder of the scholarship. The contributor, his assigns, etc., have the right of naming the holder of the scholarship.

The following is a list of donors of scholarships:

Hon. S. A. Bridges, Allentown, Pa.
James K. Mosser, Allentown, Pa.
Andrew S. Keck, Allentown, Pa.
Thomas Keck, New York, N. Y.
Horatio Trexler, Reading, Pa.
William Saeger, Allentown, Pa.
Alfred G. Saeger, Allentown, Pa.
Charles Burkhalter, New York, N. Y.

Amos W. Potteiger, Reading, Pa.

Mrs. Sarah Miller, Allentown, Pa.

A. Stanley Ulrich, Esq., Lebanon, Pa., and Rev. Aaron Finfrock, Reading, Pa.

A. S. Shimer, Easton, Pa.

John Wagner, Hellertown, Pa.

William Arnold, Reading, Pa.

Samuel H. Kutz, Reading, Pa.

Robert H. Sayre, South Bethlehem, Pa.

Henry Stine, Fogelsville, Pa.

Jacob Fegely, Pottstown, Pa.

George H. Reinoehl, Lebanon, Pa.

Edward S. and Sarah Wertz, Reading, Pa.

Charles A. and Annie D. T. FonDersmith, Lancaster, Pa.

John E. Lentz, Allentown, Pa.

Mrs. Caroline Freudenberger, Tamaqua, Pa.

Reuben D. Wenrich, M.D., Wernersville, Pa. This scholarship has been increased, by the donor, to $1,500.

Rev. Dr. John W. and Mary Sener, Rumple Scholarship, endowed by the Rev. John W. Rumple. Value, the interest of $1,500.

St. John's Evangelical Lutheran Church, Allentown, Pa.

Trinity Evangelical Lutheran Church, Reading, Pa., (two owned by the Congregation, and one of $1,400 endowed by the Sunday School, in memory of Mrs. Sidley).

St. James' Evangelical Lutheran Church, of Reading, Pa., (two owned by the congregation).

Emanuel Evangelical Lutheran Church, of Pottstown, Pa.

St. John's English Reformed Church, of Allentown, owns the *Frank Erdman Cooper Scholarship,* given to it by C. W. Cooper, Esq., in memory of his son.

The *Henry S. Neff, M.D., Memorial Scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by George Rugan Neff in memory of his son.

The *Frank Rugan Neff Memorial Scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by Julietta S. Neff in memory of her son.

The *Henry Melchior Muhlenberg Scholarship* was endowed by Mrs. Mary A. Rogers and Mrs. E. M. Bailey and her son James Muhlenberg Bailey, of New York, in honor of their ancestor, the Patriarch of the Lutheran Church in this country.

The *Henry and Anna Mary Romig Memorial Scholarship* was endowed by Mrs. Isaac Fegely, of Pottstown, Pa., in honor of her parents.

The *Allentown High School Scholarship* is vested in the Public School Board of Control, of Allentown, and is open annually to competition on the part of graduates of the High School.

The *Clemmie L. Ulrich Scholarship* was left by bequest for the use of the Ev. Lutheran Ministerium of Pennsylvania.

Charles Roeller Himmelwright Memorial Scholarship of St. John's Evangelical Lutheran Church, of Quakertown, Pa., endowed by Mrs. Susan Himmelwright in memory of her husband.

The Frank R. Nusbaum Scholarship, of Trinity Evangelical Lutheran Church, Lehighton, Pa., endowed by Mr. Frank R. Nusbaum. Value, the interest of $1,400.

The W. J. Andres Scholarships. Four scholarships, each the interest on $1,500, given by the bequest of Rev. W. J. Andres, especially for students preparing for the ministry.

The *Stephen A. Repass Memorial Scholarship* of St. John's Lutheran Church, Allentown, Pa. Value, the interest of $1,500.

The Lizzie M. George Scholarship, given by Mrs. Lizzie M. George, of Annville, Pa. Value, the interest of $1,500.

The Aaron B. Walp Scholarship, given by Mr. Aaron B. Walp, of Trinity Church, Quakertown, Pa. Value, the interest of $1,500.

The Martin Luther Trexler Scholarship, given by Rev. D. D. Trexler in memory of his son Martin Luther Trexler. Value, the interest of $1,500.

The Reber Memorial Scholarship, in memory of Henry Reber, Emma M. Reber and Catherine E. Reber, Auburn, Pa. Value, the interest of $1,000.

The Martin Scholarship. Founded with a donation of $1,500 by Ada Amelia Martin, of Utica, N. Y., in memory

of her parents, Frederick and Maria Carolina Lueke Martin. Value, $75.00 a year.

The Kostenbader Memorial Scholarship. Founded by the Children of Mr. and Mrs. Herman Kostenbader, Catasauqua, Pa., with a gift of $1,500 in memory of their parents. Value, $75.00 a year.

The Theodore L. Seip Scholarship. Founded by the bequest of Mrs. Theodore L. Seip, deceased, wife of the third president of Muhlenberg College. Value, the interest of $1,500.

The Mary E. Lovell Minnich Scholarship. Given by Rev. M. Reed Minnich, of the Church of the Incarnation, Philadelphia, Pa. Value, the interest of $900.

The Rev. S. A. Bridges Stopp Scholarship. Founded by the bequest of Rev. S. A. Bridges Stopp, deceased, for the education of a student for the Lutheran ministry. Value, the interest of $2,000.

The William A. Freihofer Scholarship. By gift of Mr. Charles Freihofer, of Philadelphia, in memory of his son, William A. Freihofer, of the class of 1915, who died in the service of his country. Toward the expenses of two students for the Lutheran ministry. Value, the interest of $11,000.

The E. W. Miller Scholarship. Given by Mr. E. W. Miller, of Lebanon, Pa. For a student for the Lutheran ministry. Value, interest of $1,000.

The Rev. George G. Kunkle Scholarship. Given by Ambrose A. Kunkle, of the class of 1899, for a student for the Lutheran ministry. Value, the interest of $1,500.

The Rev. Prof. Wm. Wackernagel Scholarship. Given by the class of 1895 in honor of the beloved professor of the German language and literature. Value, the interest of $1,500.

The Dr. Francis O. Ritter Scholarship. Given by Dr. Francis O. Ritter, of Allentown, Pa., for the education of a student for the Lutheran ministry. Value, the interest of $2,000.

It is hoped that others will follow these examples, and take individual, memorial, or congregational scholarships, as thereby the owner of such a scholarship, apart from educating his own family, will aid worthy and talented but poor young men in securing an edu-

cation that may fit them for eminent usefulness, and the congregations may have in perpetual training those of their sons that seek the work of the Gospel ministry.

HIGH SCHOOL SCHOLARSHIPS

The Board of Trustees has also granted a scholarship, representing an annual credit of $50 for tuition, to each of the following High Schools:

The Reading High School.
The Lebanon High School.
The Easton High School.
The Catasauqua High School.
The Hazleton High School.
The Kutztown Normal School.
Millersville Normal School.
Moravian Parochial School.
Perkiomen Seminary, Pennsburg, Pa.
Bethlehem Preparatory School.
Freeland High School.

EXPENSES FOR THE COLLEGIATE YEAR

In the Administration Building.

The expenses in the Administration Building will be $125.00, which includes tuition, the use of the College Library, Reading Room, furnished and supplied with current literature by the College, Gymnasium, light, heat, and service. A deposit of $1.00 will be required for a locker key in the gymnasium, which will be refunded when the key is returned.

A Registration Fee of $10.00 will be collected from each student when entering college for the first time.

A student activity fee of $10.00, including an athletic fee of $10.00, will be collected annually from each student for the Athletic Association.

Board can be secured at $5.50 per week at the Commons.

The charges for material and the use of instruments in the Biology courses average $10.00 to $15.00 a year.

All Chemistry students, in all courses, are required to pay a fee of $5.00 and to deposit with the Treasurer $5.00 to cover possible breakages.

For special courses, embracing from one to three subjects of study, the charges will be $50.00 a year.

The scholastic year is divided into two terms for the payment of these charges, namely, from September to the end of January, and from the first of February to Commencement. *The College charges of each term must be paid in advance.*

The members of the Senior Class, at the beginning of the second term, pay to the Treasurer an extra fee of ten dollars, which will be refunded in case of failure to graduate.

In the Dormitories.

The room-rent in the Dormitories includes electric light, steam heat, hot and cold water, bath, and service. The rental is always for the whole room or suite, and for the time extending from Monday before the opening of College in September until Saturday after Commencement in June. In case of a double room or double suite, the rent per tenant is one-half the given rent. Students staying on the premises during the day and returning to their homes at night will be assigned either to a double room or to a double suite after all the resident students have been located, and charged one-fourth the rent.

All students must furnish their own rooms, and only iron bedsteads with all iron springs approved by the College are allowed.

The rooms are divided into four classes:

1. Single rooms for one tenant only, where the rent is $55.00.

2. Single suites, a study and a bedroom, for one tenant only, where the rent is $87.50 on the first and second floors, and $67.50 on the third floor.

3. Double rooms, one large room for two tenants, where the rent is $90.00 on the first and second floors, and $85.00 on the third floor.

4. Double suites, a study, and two bedrooms, where the rent is $140.00 and $150.00 on the first and second floors, and $130.00 on the third floor.

5. Triple suites, a large study and three bedrooms on first and second floors, where the rent is $225.00 equally divided between each occupant.

APPROXIMATE YEARLY EXPENSES

Tuition	$125.00
Rent (average)	65.00
Student Activity Fee	10.00
Board (about)	185.00
Library	2.00
Total	$387.00

ENDOWMENTS, BEQUESTS AND DEVISES

Higher education, in our country, rests largely upon a charitable basis. No institution offering a liberal education can be maintained by the moderate charges made for tuition. The increasing breadth given to such higher education, and the more exalted standard of architectural effect employed in collegiate buildings, increase enormously the resulting financial strain. No such institution can therefore keep abreast of this ever-rising standard of the times without the steady increase of its endowment funds. Muhlenberg College has, in the past, been the recipient of a number of very generous gifts and endowments. But, for the reasons just assigned, it must most earnestly urge its friends and graduates to aid in furthering its resources, endowing new professorial chairs, founding scholarships, providing funds for the aid of worthy but indigent students, and the other constantly pressing needs of the institution. Attention is also called to the eminent propriety of making bequests to advance the prosperity and widen the usefulness of our institution. As it is important that testamentary papers should be carefully drawn and regularly executed, and our corporation name be written accurately, we append the following forms, respectively for personal property and real estate, indicating whether the bequest is for endowment or the general purposes of the College:

I give and bequeath to "Muhlenberg College," in Allentown, Pennsylvania, and its successors and assigns, forever, the sum of Dollars, to be safely invested by said corporation in good real estate

security, and the interest accruing therefrom to be applied to the uses and purposes of said College.

I give and bequeath a certain lot, situated (here describe) to "Muhlenberg College," in Allentown, Pennsylvania, and to its successors and assigns, forever, for the uses and purposes of said College, according to the provisions of its charter.

THE ALUMNI ASSOCIATION OF MUHLENBERG COLLEGE

PRESIDENT: Prof. George T. Ettinger, Ph.D., '80.

VICE-PRESIDENTS: Rev. J. J. Schindel, D.D., '96, Philadelphia, Pa.; Rev. W. O. Fegely, '90, Trappe, Pa.

CORRESPONDING SECRETARY AND TREASURER: Ralph H. Schatz, Esq., '08, Allentown, Pa.

RECORDING SECRETARY: Professor J. A. Bauman, Ph.D., '73, Allentown, Pa.

BOARD OF MANAGERS: Willard D. Kline, M.D., '97; Dr. Howard S. Seip, '85, and Prof. Robert R. Fritsch, '00.

The object of this Association is to cultivate friendly relations among the alumni and to promote the interests of Muhlenberg College.

Any graduate of Muhlenberg College may become a member by paying a membership fee of 50 cents, and $1 annually thereafter.

It is urgently requested that as many of the alumni as possible join the Association, and thus assist in advancing the objects for which is has been established.

The annual meeting is held on Wednesday forenoon of Commencement Week.

Further information may be had from the Corresponding Secretary.

THE LIST OF ALUMNI

The list of alumni will not be printed in the catalog every year, as was formerly the custom. In place of this, information will be given about individual alumni or special groups.

CLASS GIFTS

Several of the recently graduated classes have made gifts to their Alma Mater upon graduation or at some reunion. It is hoped that this example will be followed by others. The gifts and givers are these:

Class of 1899. In the year 1914 this class installed and presented to their Alma Mater a large four-dial clock for the tower of the Administration building.

Class 1900. This class has presented many books to the library.

Class of 1908. This class has annually given the second Junior Oratorical Prize of $10.00.

Class of 1913. In 1913 this class erected and presented as a parting gift to their Alma Mater a 100-foot Oregon pine flag pole, and a large American flag for same.

Class of 1914. As a parting gift to their Alma Mater, this class placed in the tower of the Administration Building a large bell metal tube and striking attachments to the clock.

Class of 1915. A majority of the members of this class as a parting gift to the College insured their lives in favor of their Alma Mater.

EXTENSION COURSES

College Year—1921-1922

October 1-May 27

The purpose of the Department of Education is to contribute in a professional way to the preparation of superior teachers and other educational leaders. The curriculum is based upon the assumption that teachers should have a broad, liberal education; that this training should be supplemented by professional education which gives a knowledge of the pupils to be taught, the problems to be met, the new meanings of the subjects of instruction, and the fundamental principles of the educative process; and finally, that they should be masters of the special subjects which they are teaching or expect to teach.

The extension courses offered by the faculty of Muhlenberg College during the college year and at the summer session are designed primarily for the following classes of men and women:

1. Superintendents, supervising principals, and supervisors of special branches of instruction.

2. Teachers who are preparing to pass the examinations for a higher certificate or a renewal of their present one.

3. Teachers who desire to increase their professional training.

4. Students, preparing to teach their first school, who wish to study the methods used in the elementary school.

5. Undergraduates who desire to add to their credits or to make up deficiencies.

6. All persons who desire speaking ability in French, German, or Spanish.

ADMISSION

All courses are open to both men and women. If the student desires college credit for the courses completed he must have satisfied the college entrance requirements before entering upon his work.

REGISTRATION

Students in the extension division of the college may register on Saturday morning, September 17, or the following Saturday morning.

The regular class work will start on Saturday, October 1, and the evenings of the following week.

Early registration is advisable in order that the books can be arranged for with the college store.

Tuition Fees

Matriculation fee for those who desire college credit (to be paid but once), $10.00.

For each lecture or recitation course of five hours a week during the summer sessions, $10.00.

For each lecture or recitation course one hour a week during the college year, $10.00.

Special fee for those teachers who are preparing for the Permanent Certificate.

Laboratory fees to be arranged by each department.

ACADEMIC CREDIT

The requirement for the Bachelor's degree in the extension courses of the college is the completion of 60 "units" of academic work. The "unit" of college credit consists of 30 recitation or lecture periods of one hour each, or of 30 laboratory periods of two hours each.

College credit is granted for all college courses given by the regular college faculty.

ATTENDANCE

No student who has not attended eighty per cent. of the regular work of the course, in addition to passing the required examination, can receive credit for such course.

CERTIFICATES

Students, who register without desiring college credit, are granted certificates of proficiency on the successful completion of any course.

This certificate is accepted by many superintendents in place of the examination required for teachers' certificates. It has been officially recognized by the various State and City Departments of Education, for all courses credited towards the Bachelor's degree.

The courses given by the Department of Education broadly prepare students to meet the professional requirements for teachers' certificates in any city or state.

LIBRARY

The college library is open to all students in the extension courses. A large list of new books on education, history, philosophy, and sociology have been added during the year.

The reading room, with a large list of daily papers, magazines, and periodicals, will be open during the summer session.

SUMMER SCHOOL 1922

The regular summer session of the college will open June 26 and continue for six weeks. The state examination for the permanent certificate will be held at the close of the session.

The work is divided into three parts: First, regular college courses; second, special courses for new teachers; third, review courses for the permanent certificate examination.

TEACHER TRAINING COURSES

The following fundamental topics are included and given careful consideration in each course designed to prepare students for service in the public schools:

1. The aim and object to be attained in a high school course in the subject.

2. A general survey of the subject matter included in any course, as set forth by the college entrance requirements, and presented from the high school point of view.

3. A comparative and critical study of the different methods to be used in presenting the subject from the high school point of view.

4. A comparative and critical study of the text-books available in the subject and of how to use them.

5. The art of asking questions and the preparation of questions for written tests.

6. Books of reference.

7. Equipment and illustrative material, such as desks, tables, apparatus, lantern slides, a list of firms supplying such material.

8. A study of educational tests and scales bearing upon the subject.

In addition to the regular college courses the following courses will be offered at the summer session,

on Saturday, and at other convenient hours. Teachers wishing to do special work in any course not announced may be able to make the necessary arrangements. Only courses not described in the regular college catalog are described in the following list:

DEPARTMENT OF LATIN *Dean Ettinger*

1. Latin, elementary course.
2. Latin, Cicero De Amicitia and De Senectute.
3. Latin, Livy.
4. Latin, Horace.
5. Contributions of Ancient Civilization to Modern Life. A careful survey of the civilization of Greece and Rome.

DEPARTMENT OF GREEK *Professor Horn*

1. Greek Literature in English translation. No knowledge of the Greek language is required for this course.
2. History of Art, part 1, A study of Greek and Roman Art and Architecture.
3. Greek in English. A study of the contributions of the Greek language to English, leading up to the study of scientific terms.
4. Methods of Teaching Greek and Latin. The aim of this course is to give a practical treatment of the teaching of these languages from the secondary school point of view. Special attention given to the selection of texts, noun and verb construction, pronunciation.

Courses in Greek Language and Literature will be given where there is a demand for them.

DEPARTMENT OF BIOLOGY *Professor Bailey*
Mr. Worsinger

1. *Zoology.* A first course in the study of animal life.
2. *Botany.* A first course, comprising the principles and methods of teaching botany in the public school.
3. *Biology.* Special courses for college credit.

4. *Agriculture.* The course in agriculture is primarily designed to bring the schools in closer touch with the daily life of the community. It will deal with the propagation, improvement, and pruning of plants, the rotation of crops; the soil as related to crops; the principles of feeding farm animals; the enemies of plants; etc. The work will be practical and much of it will be conducted on the college farm. It will fit any teacher to give practical, modern, and definite agricultural instruction in public schools of any kind.
5. *School Hygiene.* This course consists of a series of lectures and studies on the personal hygiene of school children; care of the teeth, eyes, nose, throat, ears, diet, exercise, effects of stimulants and narcotics; the recognition of contagious diseases and first aid in emergencies. Thursday 7-9 p. m.
6. *The Teaching of Geology and Physical Geography.* This course emphasizes the important essentials of these subjects and their relation to human activity. Special attention will be given to the physical features of Eastern Pennsylvania; the laboratory notebook; the equipment of the laboratory. Lectures, class discussions and excursions.
7. *Ornithology.*

DEPARTMENT OF PHYSICS AND CHEMISTRY

Professor Fasig
Professor Anderson

1. *General Physics,* with laboratory work. Saturday 9:00-10:00, and other hours.
2. *General Chemistry,* with laboratory work. Saturday 10:00-12:00, and one other hour.
3. *Analytical Chemistry.*
4. *Methods of Teaching Physics and Chemistry.* This course will consist of reports and discussions on the problems arising in the teaching of physics and chemistry; special attention is given to the equipment and management of the laboratory, and the preparation of notebooks.

DEPARTMENT OF ENGLISH

Professor Simpson
Professor Brown

1. *English Composition.*
2. *English Novel.* Saturday 11:00-12:00.
3. *History of Literature.* Saturday 10:00-11.00.
4. *American Poets. Tuesday* 7:00-8:00 p. m.
5. *Modern Essayists.* Tuesday 8:00-9:00 p. m.
6. *Public Speaking.*
7. *Social Ideals of Literature.*
8. *Shakespeare.*
9. *The Teaching of English in Secondary Schools.* This course seeks to set forth a comprehensive treatment of the teaching of English in the secondary school. The content of the course is determined by the college entrance bulletin.

DEPARTMENT OF HISTORY

Professor Mueller
Professor Cressman

1. American history to 1789.
2. American history since 1789.
3. American politics and government.
4. Europe since 1815.
5. Economics.
6. Sociology.
7. The teaching of history and civics. It is the purpose of this course to discuss the problems of teaching history and the social sciences in the secondary school. Attention will be given to the use of source books, atlases, charts and other illustrative material.

DEPARTMENT OF MATHEMATICS

Professor Anderson

1. Algebra.
2. Plane Geometry. These courses are planned for teachers preparing for the Permanent Certificate.
3. Solid Geometry.
4. Trigonometry.

5. Analytical Geometry. Not given in 1921-22.
6. Calculus. To be given in 1921-22. Saturday 11:00-12:00.
7. The teaching of mathematics in secondary schools. The purpose of this course is to present the practical phases of teaching mathematics in the junior and senior high schools.

DEPARTMENT OF MODERN LANGUAGE

Professor Fritsch
Mr. Corbiere

1. French. Elementary course. Thursday evening 7:00-8:00, or Saturdays.
2. French. Anvanced course.
3. French Conversation. A course of exercises in French, designed for students and teachers who need practice in hearing and speaking the language. Thursday evening, 8:00-9:00.
4. German. Elementary course.
5. German. Advanced texts.
6. German. Scientific. The courses in German will be offered on Saturdays.
7. Spanish. Advanced. Saturdays.

DEPARTMENT OF EDUCATION

Dr. Haas
Dr. Wright
Mr. Boyer

1. Philosophy of Education. This course is intended for those who are interested in the broader problems of education and in general conceptions of the place and meaning of education in individual and social development. Saturday, 9:00-10:00.
2. Applied Child Psychology. A study of the methods by which children learn to write, draw, read, spell, and grasp the meanings of history, geography, mathematics, and natural science, and of the mental processes which are developed in learning these subjects. The aim of the course is to prepare the students to understand and intelligently apply methods of teaching. Monday, 8:00-9:00 p. m.

3. Measurement of Intelligence. An intensive study of the standard-test movement in education; a brief historical perspective; principles underlying the demand for standards; a critical discussion of the validity of the tests; the use of standard tests to the administrator and to the teacher; continuation of the clinic work started in 1920. Monday, 7:00-8:00 p. m.

4. Principles of Education. This course offers a survey of the conditions, problems, and guiding principles of modern education. An attempt to interpret the meaning of education and to follow the principles derived from biology, sociology, and psychology. Tuesday, 7:00-8:00 p. m.

5. Junior High Schools. A survey of the progress of the junior high school with a critical examination of its claims, organization, special functions, courses of study, methods of teaching, and administration. Tuesday, 8:00-9:00 p. m.

6. Aims and Methods of the Elementary School. This course is arranged to meet the needs of the inexperienced teacher and those preparing for the Permanent Certificate. Attention will be given to the content and methods of each subject in the elementary school, the organization of the class, daily program of work, making of reports, supervised study, and the new syllabus. Saturday, 11:00-12:00.

7. Educational Psychology and Educational Measurement. During the first hour the purpose will be to set forth the fundamental principles of the learning process. The second hour will be devoted to the various standard tests for elementary school subjects. These will be considered critically from the point of view of their value when used in measuring the work of the class room. Practice is afforded in giving and scoring tests and interpreting the results. Special emphasis upon the application of remedial measures. This course is in harmony with the work outlined for the year by the Lehigh County Educational Association. Saturday, 9:00-11:00.

8. Project-Problem Method. The principles of this method and their application will be set forth in connection with the work in courses 4, 5, and 6.
9. Permanent Certificate. Special courses will be organized to meet the requirements of those teachers who are working for the Permanent Certificate. Saturdays. In order to be of greater service to the teaching profession, special classes will be arranged at convenient times and places for those who cannot do the work on Saturday.
10. Principles and Methods of Geography. A complete course in geography from the physical, political, economic, and regional point of view. Hours to be arranged.

Courses 2, 3, and 7 are given under the direction of the School of Pedagogy of New York University, and when taken by graduate students are credited towards the master's degree.

Other courses will be arranged at night or on Saturday, according to the wishes of those taking the work.

For complete information address Isaac Miles Wright, Pd.D., 240 North St. Cloud St., Allentown, Pa. Bell telephone.

THE ALLENTOWN PREPARATORY SCHOOL AND MUHLENBERG ACADEMY

LOCATION: The school is the official preparatory school of Muhlenberg College although it is completely separated from the college department. It is situated to the west of Muhlenberg College in a beautiful country district just on the outside of Allentown where the boy can enjoy the healthfulness of the country and yet not miss the advantages offered by the city. The school lies between 25th and 26th streets. Our health record is excellent. Sickness in the school is almost unknown. The location is ideal.

BUILDING: The building is a large three-story building with a nicely laid out and well-lighted basement. The building is practically new. It is modern and fireproof throughout and completely equipped to do good work. The only wooden floors throughout the building are in the class rooms. The class rooms and the boys' rooms are of the highest type with regard to light, ventilation and good living conditions. We have in the building our own gymnasium, laboratories, and dining room.

AIM: The aim of the school is to furnish the basis of a solid education together with Christian manliness, to prepare young men for college, to give those who do not wish to enter college a good general education and also to prepare young men for business. A large number of the graduates enter Muhlenberg College, but, nevertheless, the school prepares for any college or

University in the country and many colleges accept our certificate in lieu of entrance examinations. Some of the schools to which our graduates go are: Muhlenberg, Lehigh, Lafayette, State, University of Penna., etc.

COURSES: There are the following courses: Classical, Scientific, Latin Scientific, General, and Business. The Classical, Scientific, and Latin Scientific are for boys who desire to enter College. The general course is for boys who do not wish to enter College but only desire a general education. The business course is quite complete and comprises all the subjects that a boy will get at the business school, and Spanish as a modern language. The business course is limited only to about ten boys and is really a high grade business course.

JUNIOR DEPARTMENT: In addition to the main department there is maintained a junior department for younger boys into which are received boys both as boarding students and day students as young as nine years old. In this department there are also only a limited number of boys and if the boys come to us early enough there will be a saving of time and the instruction is bound to be more thorough than in the public school because the classes are very small.

SUMMER SESSION: The school also regularly has a summer session which begins about two weeks after the regular session and continues for a period of seven weeks. The next summer school will begin on June 28th, 1921. The summer session is not only for boys of our own school but for other boys as well. It enables boys to make up their conditions, to catch up with their classes, and in some cases to save time.

ATHLETICS: There are all branches of athletics, such as football, cross country, basketball, track, baseball and tennis. All the sports are, however, under faculty coaching and management. There is also excellent swimming, skating and coasting.

CAPACITY AND ACCESSIBILITY: The school can accommodate about eighty-five boarding students and about seventy-five day students and has been filled up entirely for the last three years. The school is easily accessible from all surrounding towns and also the large cities as New York, Brooklyn, Philadelphia, etc.

ROOMS: The boys' rooms are furnished and the only things necessary for a boy to bring are sheets, pillow cases, towels and a cover for his bed.

INSTRUCTION: The instruction in all cases is in charge of teachers who are college graduates and men of experience. The aim of the school is to maintain small classes on the basis of sixteen to a section wherever possible so as to make the instruction very thorough. It is our object to reach every boy, every day in every subject. Every effort is made to avoid congested conditions.

CHARGES: The charges are $500.00 for a boarding student and $150.00 for a day student. The school year is divided into three equal parts or terms and likewise the charges are divided into three equal parts and are due sometime throughout the term. There are three fees, namely, athletic, laboratory and contingent. The books can be procured at the school and amount to about ten dollars per year. The charges for the

summer session are twenty-five dollars for a day student and seventy-five for a boarding student.

The school is open throughout the year and visitors are always welcome at any time. We also issue our own and separate catalogue and the same will be cheerfully supplied upon request.

The following is a list of faculty and students:

SCHOOL OFFICERS

IRVIN M. SHALTER, Headmaster.
CHARLES SMITH, Librarian.
MRS. IRVIN M. SHALTER, Matron

FACULTY

IRVIN M. SHALTER, A.M., *Mathematics and Modern Language.*

CHARLES SMITH, A.M., *Latin and Greek.*

WALTER BENNER, B.S., *History.*

EDWARD S. FABER, B.S., *Science.*

CARL KARSCH, A.M., *English.*

JOHN C. ROBERTS, A.B., *Modern Languages.*

EDWIN G. ARNER, A.B., *Mathematics, German, Mechanical Drawing.*

CHESTER D. WINE, A.B., *Coach of Teams and Physical Training.*

RICHARD M. ROGERS, *Commercial Subjects.*

ARLAN KLINE, *English and Spanish.*

ARTHUR FREITAG, *Common Branches.*

PAUL LYNCH, *Latin and German.*

RAYMOND WALLER, *Commercial Subjects.*

LIONEL FARNY, *French.*

SENIORS

BECK, MARVIN ..... Northampton, Pa.
BOHLEN, EDWARD ..... Allentown, Pa.
BUEHLER, HURBERT ..... Brooklyn, N. Y.
CALLAHAN, JOHN ..... Slatington, Pa.
COOPER, SAMUEL ..... Fullerton, Pa.
CRESSIE, ROY, ... Cape May, N. J.
CURREN, JOSEPH ..... Norristown, Pa.
DAUFER, GEORGE ..... Allentown, Pa.
DEVINE, WALTER ..... Allentown, Pa.
DIEFFENDERFER, CHARLES ..... Fullerton, Pa.
DUTT, WARREN ..... Allentown, Pa.
FOLK RALPH ..... Mertztown, Pa.
GALLOWAY, HAROLD ..... Phillipsburg, N. J.
HANGEN, JOHN ..... Allentown, Pa.
HARRIS, NEWTON ..... Philadelphia, Pa.
HARTZELL, RICHARD ..... Allentown, Pa.
HAWK, WALTER ..... Allentown, Pa.
HENRY, HARMON ..... Summit Hill, Pa.
KANE, BENJ. ..... Catasauqua, Pa.
KLEINHANS, REESE ..... Easton, Pa.
KOCH, ALFRED ..... Allentown, Pa.
KOSTENBADER, CARL ..... Catasauqua, Pa.
KRAMLICH, RICHARD ..... Allentown, Pa.
KRAUSS, BERT ..... Allentown, Pa.
KRICK, EDWARD ..... Allentown, Pa.
KUDER, WILLIAM ..... Bethlehem, Pa.
KUSS, CHARLES ..... Allentown, Pa.
LENGEL, LUTHER ..... Shoemakersville, Pa.
LONG, WILMER ..... Fullerton, Pa.
LUCKENBACH, BERT ..... Northampton, Pa.
MACK, EDWIN ..... Allentown, Pa.
MCFADDEN, EDWARD ..... Allentown, Pa.
MELLINGER, EDWARD ..... Lancaster, Pa.
NEXSEN, ELBERT ..... Jersey City, N. J.
NICOLL, WILLIAM ..... Allentown, Pa.
OTT, NORMAN ..... Allentown, Pa.
RAHN, EMMANUEL ..... Allentown, Pa.
REAGAN, ARTHUR ..... Easton, Pa.
RAYES, JOSE ..... Nicaragua, C. A.
ROESSLER, JOHN ..... Fullerton, Pa.
ROXBERRY, RICHARD ..... Allentown, Pa.

SCHATZ, RALPH ..... Allentown, Pa.
SANTOS, FRANCISCO ..... Sao Paulo, Brazil
SEMERANE, WADI ..... Merida, Yucatan, Mex.
SHAFFER, SIDNEY ..... Allentown, Pa.
SHUMBERGER, JOHN ..... Allentown, Pa.
SLOTTER, CLARENCE ..... Northampton
SMODIS, STEPHEN ..... Bethlehem, Pa.
THAMERUS, WILLIAM ..... Walnutport, Pa.
WHEELER, ROBERT ..... Allentown, Pa.
WINKLEMANN, HOWARD ..... Brooklyn, N. Y.
ZAUN, ALFRED ..... Brooklyn, N. Y.

Enrollment, 52.

JUNIORS

AICHER, WARREN ..... Easton, Pa.
BARNES, DOUGLASS ..... Allentown, Pa.
BASCOM, BROUGHTON ..... Allentown, Pa.
BOWES, FRANCIS ..... North Adams, Mass
CABDENAS, CÉSAR ..... Lima, Peru
CHRYST, ELMO ..... Allentown, Pa.
COLWELL, JOHN ..... Allentown, Pa.
DITTERLINE, HERMAN ..... Lehighton, Pa.
DORANG, WILLARD ..... Pottsown, Pa.
EDWARDS, JESSE ..... Allentown, Pa.
ERB, EARL ..... Pottstown, Pa.
FLOCK, SAMUEL ..... Wiliamsport, Pa.
GENSEMER, GUY ..... Allentown, Pa.
GOODMAN, DANIEL ..... Allentown, Pa.
HEILMAN, JOHN ..... Allentown, Pa.
KEELER, HARRY ..... Harleysville, Pa.
KLINGLER, PAUL ..... Coplay, Pa.
KLOTZ, PAUL ..... Allentown, Pa.
KNAUSS, BENJ. ..... Allentown, Pa.
KNERR, RUSSELL ..... Allentown, Pa.
KLOSLOWSKI, STANLEY ..... Catasauqua, Pa.
KOCH, PAUL ..... Allentown, Pa.
KUHNS, HAROLD ..... Allentown, Pa.
LILLIS, JOHN ..... Easton, Pa.
MCDERMOTT, CHARLES ..... Allentown, Pa.
MCCORMACK, JOHN ..... Easton, Pa.
MENDELL, IRVING ..... Allentown, Pa.
MERTZ, CHARLES ..... Allentown, Pa.

NAGEL, THOMAS ..... Allentown, Pa.
PAPAUGUAA, GUSTAVO ..... Nicaraugua, C. A.
PAPAUGUA, JOSE ..... Nicaraugua, C. A.
PIEROLA, CHARLES ..... Lima, Peru
PRETZ, WILLIAM ..... Allentown, Pa.
RAAB, GEORGE ..... Jersey City, N. J.
ROEPE, GEORGE ..... Brooklyn, Pa.
SAPKO, JAMES ..... Plymouth, Pa.
SCHARLE, CARL ..... Allentown, Pa.
SCHOENLY, RICHARD ..... Pottstown, Pa.
SEVART, GEORGE ..... Allentown, Pa.
SHANKWEILER, WILSON ..... Stettlersville, Pa.
SHEN, ROBERT ..... Peking, China
SHUGRUE, JOSEPH ..... Easton, Pa.
STEIGERWALT, HOWARD ..... Summit Hill, Pa.
STEINMETZ, RICHARD ..... Allentown, Pa.
STINNER, PHILIP ..... Allentown, Pa.
STIPE, EDWIN ..... Easton, Pa.
TORGERSEN, WALTER ..... Brooklyn, N. Y.
TURNER, HARRY ..... Philadelphia, Pa.
VALDIVIA, EMILIO ..... Lima, Peru
WELTY, GEORGE ..... Allentown, Pa.

Enrollment, 50.

SOPHOMORES

ADAMICK, DANIEL ..... Plymouth, Pa.
BARNES, HAROLD ..... Allentown, Pa.
BARTHOLOMEW, ALFRED ..... Northampton, Pa.
BISCHOFF, FREDERICK ..... Brooklyn, N. Y.
CARMEN, ALEXANDER ..... New York, N. Y.
CROOKS, WALTER ..... Allentown, Pa.
EBERT, JOHN ..... Kutztown, Pa.
EGGE, HARLEY ..... Allentown, Pa.
FALLON, KEVIN ..... Hartford, Conn.
FLUCK, EARL ..... Allentown, Pa.
GOLDTHORPE, EARL ..... Paterson, N. J.
HARNED, WILLIAM ..... Allentown, Pa.
HELWIG, CHARLES ..... Allentown, Pa.
HEPLER, ELMER ..... Pitman, Pa.
KECK, ROBERT ..... Allentown, Pa.
KNEPPER, WILLIAM ..... Allentown, Pa.
KRESS, SAMUEL ..... Allentown, Pa.

KUHNS, RICHARD ..... Allentown, Pa.
LICHTENWALNER, LAWRENCE ..... Allentown, Pa.
MCCLELLAN, JOHN ..... Catasauqua, Pa.
MCCREARY, JOSEPH ..... Conshohocken, Pa.
MORRIS, JOHN ..... North Wales, Pa.
OTT, JOHN ..... Philadelphia, Pa.
OTT, PAUL ..... Allentown, Pa.
PERALES, JUSTO ..... Humacao, Porto Rico
PEREIRA, JOSE ..... Havana, Cuba
PRETZ, CHRISTIAN ..... Allentown, Pa.
RINN, GUSTAVUS ..... Allentown, Pa.
SCHMIDT, WALTER ..... Allentown, Pa.
SPEIGELTHAL, EDWARD ..... New York, N. Y.
WALCK, WILLIARD ..... Lehighton, Pa.
WALTER, CARL ..... Easton, Pa.
WENDT, CHARLES ..... New York, N. Y.
YANISAK, JOHN ..... Slatington, Pa.
ZAHN, HARRY ..... Philadelphia, Pa.
ZEISEL, EDWARD ..... Wildwood, Pa.

Enrollment, 36.

FRESHMEN

BILLY, GEORGE ..... Garfield, N. J.
BLOOD, EDWIN ..... New York, N. Y.
BUSH, JAMES ..... Allentown, Pa.
CLAUSER, JOHN ..... Allentown, Pa.
CHURLICK, GEORGE ..... Mahanoy City, Pa.
CURTIS, WILLIAM ..... Allentown, Pa.
EILERT, WILFRED ..... New York, N. Y.
FENICH, JOHN ..... Mahanoy City, Pa.
HARNED, ROBERT ..... Allentown, Pa.
KANYUCK, ANDREW ..... Nanticoke, Pa.
KRAMER, ALFRED ..... Allentown, Pa.
PAYNE, CLINTON ..... New York, N. Y.
PEROG, WALTER ..... Allentown, Pa.
MORGAN, FRANK ..... Easton, Pa.
NEUWEILER, HERMAN ..... Allentown, Pa.
REISS, LOUIS ..... Brooklyn, N. Y.
WENDT, PAUL ..... New York, N. Y.
WHEELER, JOHN ..... Catasauqua, Pa.
WHITCOMB, FREDERICK ..... Brooklyn, N. Y.

Enrollment, 19.

JUNIOR DEPARTMENT

Blair, Robert ..... Philadelphia, Pa.
Brest, William ..... Philadelphia, Pa.
Bush, Ellsworth ..... Allentown, Pa.
Greenawald, John ..... Allentown, Pa.
Herburt, Morton ..... Philadelphia, Pa.
Kip, Thomas ..... Brooklyn, N. Y.
Lorentz, Gordon ..... Philadelphia, Pa.
Mohr, Thomas ..... Allentown, Pa.
Mills, Emmanuel ..... Philadelphia, Pa.
Mills, Robert ..... Philadelphia, Pa.
Peters, Lehr ..... Bethlehem, Pa.
Resek, Emilio ..... Puerto Plato, Dominican Rep.
Rupp, Lawrence ..... Allentown, Pa.
Theobald, Nicholas ..... Damascus, Pa.
Whitcomb, Salmon ..... Brooklyn, N. Y.

Enrollment, 15.

COMMERCIAL DEPARTMENT

Aulet, Arthur ..... Havana, Cuba
Aulet, Aurelio ..... Havana, Cuba
Aulet, Frank ..... Havana, Cuba
Azqueta, José ..... Havana, Cuba
Biga, José ..... Humacao, Porto Rico.
Calvo, Ignacio ..... Havana, Cuba
Cassone, James ..... Allentown, Pa.
Diago, Henry ..... Havana, Cuba
Diago, Paul ..... Havana, Cuba
Engel, George ..... Atlantic City, N. J.
Livingston, Charles ..... Freeport, L. I.
Mack, Henry ..... Allentown, Pa.
Mendez, Antonio ..... Guantanamo, Cuba
Nexsen, Hobson ..... Jersey City, N. J.
O'Donnell, James ..... Allentown, Pa.
Palmer, José ..... Cienfuegos, Cuba
Solarzano, Humberto ..... Nicaraugua, C. A.
Zavala, Miguel ..... Honduras, C. A.

Enrollment, 18.

Total enrollment for school year 1920-21, 190.

TEACHERS' EXTENSION COURSES

Abernethy, R. R. ..... Catasauqua
Afflerbach, Ralph ..... Quakertown
Albright, H. A. ..... Easton
Albright, W. H. ..... Blooming Glen
Allen, Edna ..... Allentown
Alloway, Rexford ..... Lanark
Angle, Louise ..... Allentown
Bachman, Jennie ..... Allentown
Bachman, Margaret ..... Allentown
Bachman, Minnie ..... Allentown
Baker, John ..... Allentown
Balliett, Estella ..... Allentown
Bauman, I. W. ..... Kulpsville
Bean, David ..... Perkasie
Beatty, Ethel ..... Emaus
Bechtel, Marion ..... Allentown
Bellman, Edna ..... West Milton
Best, LeRoy ..... Schnecksville
Bittenbinder, Jennie ..... Allentown
Blaeser, A. A. ..... Allentown
Blank, G. Dewey ..... Lehighton
Blumer, Emily ..... Allentown
Blumer, Lucy ..... Allentown
Bolinski, Joe ..... Tamaqua
Bollman, Mark ..... Allentown
Bornman, Maude ..... Allentown
Bornman, Sadie ..... Allentown
Bowman, Mamie ..... Palmyra
Boyer, Carl ..... Kutztown
Bratton, Sylvia ..... Lewistown
Brong, P. L. ..... Pen Argyl
Brossman, Paul W. ..... Womelsdorf
Broughal, Nellie ..... Bethlehem
Buehler, Anna F. ..... Allentown
Buehler, Marion ..... Allentown
Burgess, Edna ..... Moundsville, W. Va.
Buss, Emaline ..... Catasauqua
Busse, Laura ..... Allentown
Butler, Gerald ..... Angels
Butz, N. A. ..... Allentown

CARROL, J. H. ..... Easton
CARROL, J. H. ..... Easton
CHARLES, J. OTIS ..... Emaus
CHUBBUCK, MARY ..... Allentown
COHEN, DAVID ..... Mount Carmel
COLE, GERTRUDE M. ..... Easton
COSTENBADER, WALTER ..... Slatington
CRESSMAN, W. O. ..... Allentown
CUMMINGS, HELEN ..... Northampton
CUNNINGHAM, MARGARET ..... Allentown
CHRISTMAN, F. A. ..... Northampton
DANKEL, GERTRUDE ..... Allentown
DAROHM, ALICE ..... Allentown
DEGRAFF, ADRIANA ..... Catasauqua
DENGLER, C. F. ..... Shickshinny
DERONE, MAUDE ..... Allentown
DEW, J. HARRY ..... Easton
DIEFENDERFER, P. A. ..... Lehighton
DOHERTY, BRIDGET ..... Allentown
DOTTERER, JESSIE ..... Quakertown
DOWNS, MARY ..... Catasauqua
DOWSON, H. W. ..... Bethlehem
DREIFOOS, HATTIE ..... Allentown
DRUCKENMILLER, EMMA ..... Sellersville
EDWARDS, J. R. ..... Orwigsburg
EISENHARD, C. W. ..... Mountainville
EISENHARD, H. E. ..... Allentown
ENGEL, HELEN ..... Allentown
ERDMAN, ELLA ..... Allentown
ESHBACH, VERNA ..... Allentown
FABER, E. S. ..... Allentown
FAIRCHILD, MARGARET ..... Lewisburg
FALK, MAGGIE ..... Catasauqua
FASIG, PAUL L. ..... Reading
FAUST, CLAUDE B. ..... Macungie
FEDKO, ALEXANDER ..... Northampton
FEDKO, WALDEMAR ..... Northampton
FEENEY, MARIAN ..... Lahaska
FEINBERG, A. R. ..... Mount Carmel
FELLMAN, MARY ..... Quakertown
FEYRER, ANNA ..... Allentown
FISHEL, SPENCER ..... Bethlehem
FLACK, MARY M. ..... Lahaska

FLUCK, SEVILLA ..... Quakertown
FOLEY, JESSIE ..... Allentown
FORSTLER, MAE ..... Allentown
FREITAG, ARTHUR ..... Brooklyn
FREY, ESTHER ..... Allentown
FREY, MABEL J. ..... Allentown
FREY, NORMAN L. ..... Emaus
FREY, HAROLD ..... Ephrata
GALLAGHER, HUGH ..... Allentown
GALLAGHER, MARY ..... Allentown
GAYMAN, PAUL ..... Easton
GEBERT, H. G. ..... Tamaqua
GEORGE, HELEN ..... Allentown
GERHART, L. J. ..... Allentown
GIBSON, PRICE ..... West Bethlehem
GIRVIN, C. EDNA ..... Allentown
GOUGHER, BEATRICE ..... Northampton
GRAINGER, MARTHA ..... Allentown
GREENAWALT, GERTRUDE ..... Easton
GRIFFITH, SALLIE ..... Allentown
HAHN, NELLIE ..... Allentown
HALLMAN, BLANCHE ..... Allentown
HANLON, MARY ..... Allentown
HARTING, CONSTANCE ..... Allentown
HARTMAN, GUY ..... Orwigsburg
HEBERLING, LUCY ..... Allentown
HEBERLING, MABEL ..... Allentown
HEFFNER, MAME ..... Allentown
HEIL, DOROTHY ..... Allentown
HEINE, ROSA ..... Bethlehem
HEISER, WARREN ..... Alburtis
HELLER, ALLEN F. ..... Emaus
HELLER, ROLAND ..... Allentown
HENRY, FANNIE ..... Allentown
HERBERT, GEORGE ..... Allentown
HESS, ANNA ..... Catasauqua
HESS, J. T. ..... Bangor
HETTINGER, ALFRED ..... Allentown
HIBSHMAN, LENA ..... Riegelsville
HILDEBRAND, AGNES ..... Bethlehem
HILKEN, ANINA ..... Allentown
HOCH, MARY ..... Allentown
HOLMAN, ANNA ..... Allentown

Hoppes, R. R. ..... Hellertown
Horne, Evelyn ..... Allentown
Horne, Irving A. ..... Quakertown
Jones, Mrs. Maurice ..... Slatington
Keefe, Nora ..... Bethlehem
Keenan, Anna ..... Doylestown
Kelly, Catharine ..... Bethlehem
Kemmerer, Amelia ..... Bethlehem
Kemmerer, Mildred ..... Allentown
Kern, Nelson ..... Allentown
Kilmer, Carrie ..... Quakertown
Kistler, Anna ..... Allentown
Kistler, Alfarata, P. ..... Allentown
Kleckner, Stanley ..... Allentown
Kline, Florence ..... Allentown
Kline, Hilda R. ..... Allentown
Kline, Mary E. ..... Allentown
Knecht, Alice Agnes ..... Allentown
Knecht, Mabel ..... Allentown
Knecht, Ruth ..... Allentown
Knerr, Eugene ..... Allentown
Knerr, Walter ..... Alburtis
Koch, Walter ..... Allentown
Kohler, E. P. ..... Emaus
Koons, Carrie E. ..... Allentown
Koons, Elizabeth ..... Allentown
Kramer, Eileen ..... Catasauqua
Kramer, Elmer ..... Perkasie
Kratz, Sarah ..... Allentown
Kressley, Blanche ..... Allentown
Kressley, Ruth ..... Allentown
Kuhns, H. E. ..... Egypt
Kuntz, Edith L. ..... Allentown
Landis, R. C. ..... Emaus
Landis, S. B. ..... Hellertown
Laubach, B. W. ..... Catasauqua
Leaser, Stella ..... Allentown
Leibensperger, Grace ..... Allentown
Leiby, Mary E. ..... Allentown
Lenhart, Flora ..... Allentown
Lichty, Amon ..... Pennsburg
Long, Orel ..... Allentown
Long, Violet ..... Bethlehem

LOUGHMAN, KATHRYN ..... Allentown
LOVE, NELLIE ..... Bethlehem
MCDONALD, MARY ..... New Hope
MCKEE, ELMER E. ..... Allentown
MCKEEVER, FLORENCE ..... Allentown
MCNAMARA, J. J. ..... Bethlehem
MADTES, EDNA ..... Allentown
MAGEE, ANNA ..... Allentown
MALEY, MARY ..... Bethlehem
MARBERGER, EFFIE ..... Bethlehem
MEASE, MABEL ..... Allentown
MESSINGER, DOUGLAS ..... Topton
MESSINGER, HILDA ..... Allentown
MEYER, BEULAH ..... Sacremento
MICH, ELLA ..... Ottsville
MILLER, MARY ..... Easton
MILLER, RAYMOND ..... Allentown
MILLER, RUTH ..... Allentown
MILLER, ROBERT ..... Allentown
MILLER, WAYNE ..... Zionsville
MORRISON, W. ..... Mauch Chunk
MOYER, ESTHER ..... Palmerton
MOYER, GRACE ..... Palmerton
MOYER, MAMIE ..... Allentown
MUELLER, MARGARET A. ..... Easton
MULL, LAURA ..... Allentown
MUSSELMAN, WILLIAM ..... Allentown
MYERS, ESTHER ..... Lock Haven
NAGLE, MARGARET ..... Allentown
NAGLE, PAUL ..... Allentown
NEIDIG, J. S. ..... Quakertown
NEVERLA, MINERVA ..... Allentown
NEWHARD, STELLA ..... Allentown
NOONAN, JAMES ..... Mahanoy City
NUEBLING, CARL ..... Reading
OBERLY, R. S. ..... Butler
OCHS, RICHARD ..... Allentown
OLD, ORLANDO ..... Allentown
OLWEILER, ANNA ..... Elizabethtown
ORR, P. R. ..... Easton
OTT, MARION ..... Coopersburg
PARK, RUSSEL ..... Easton
PENNYPACKER, HANNAH ..... Allentown

PETTIT, CARRIE ..... Parryville
PHIFER, EVELYN ..... Coplay
PILGERT, HENRY ..... Mertztown
RAUB, ANNA ..... Allentown
RAUB, MARY ..... Allentown
RAUSCH, KATHARINE ..... Allentown
REILLY, MATTHEW ..... Allentown
REINERT, FRED ..... Saucona
REINERT, GEORGE ..... Macungie
REINERT, RUSSELL ..... Alburtis
REINERT, TRUMAN ..... Coplay
REINERT, W. H. ..... Topton
REITZ, IRVIN D. ..... Coopersburg
REX, HARRIET ..... Allentown
REX, PERCY ..... Norristown
RICHARDS, ADELAIDE ..... Allentown
RICHARDS, SOPHIA ..... Allentown
RITTER, MARY ..... Allentown
RITTER, PAUL ..... Allentown
ROARTY, MARGARET ..... Allentown
ROBINS, HARVEY ..... Allentown
ROBINS, HUGH ..... Allentown
ROEDER, MARY ..... Allentown
ROMIG, IRVING ..... Shamrock
ROTH, LILLIE ..... Allentown
ROTH, MARY C. ..... Allentown
ROTHERMEL, EARL ..... Reading
ROUSH, MARY ..... Esterly
RUCH, H. R. ..... Allentown
RULOFF, MAUDE ..... Allentown
SAXE, VICTOR ..... Effort
SCHAADT, PAULINE ..... Allentown
SCHANTZ, HATTIE ..... Allentown
SCHAEFFER, I. L. ..... Northampton
SCHEIRER, EVELYN ..... Allentown
SCHEIRER, IRENE ..... Allentown
SCHLICHER, DOROTHY ..... Allentown
SCHROPE, GUY ..... Allentown
SCHULER, ADELE ..... Allentown
SECHRIST, HELEN ..... Allentown
SEIP, O. J. ..... Allentown
SEIP, THEODORE ..... Allentown
SEIP, W. H. ..... Emaus

Serfas, Paul ..... Effort
Shankweiler, John ..... Allentown
Sharkey, Harry ..... Delano
Shaw, Lillian ..... Quakertown
Shoemaker, John A. ..... Mertztown
Shoemaker, W. A. ..... Macungie
Shupp, Susanna ..... Palmerton
Silfies, Mabel ..... Northampton
Skiles, Amos ..... Allentown
Smith, Ralph F. ..... Northampton
Snyder, Carrie ..... Allentown
Snyder, Laura ..... Allentown
Snyder, Raymond ..... Allentown
Sowers, Harry ..... Slatington
Spatz, Margaret ..... Allentown
Spencer, Raymond ..... Andover, N. J.
Spieker, P. F. ..... Allentown
Earl W. Steffy ..... Mohnton
Steiner, Henry ..... Trumbauersville
Steinmetz, Jennie ..... Allentown
Steltz, Anna ..... Allentown
Strouse, Cordelia ..... Richlandtown
Strunk, LeRoy ..... Quakertown
Stuber, Dora ..... Allentown
Swope, Emily ..... Northampton
Thierolf, W. R. ....Easton
Titus, Carrie ..... Allentown
Trexler, G. M. ..... Lanark
Trumbower, Eva ..... Allentown
Trumbower, Mabel ..... Allentown
Turner, Eleanor ..... Bethlehem
Tuteur, Mary ..... Cleveland, Ohio
Utz, Pauline ..... Wilkes-Barre
VanZandt, Wm. .....Sellersville
Vogel, Frances ..... Allentown
Voegele, Ruth ..... Martinsburg, W. Va.
Waller, Marie ..... Allentown
Wallick, R. G. ..... Bethlehem
Wallick, Mrs. R. G. ..... Bethlehem
Walp, Mary E. ..... Quakertown
Weidner, Kathryn ..... Allentown
Weierbach, Lilly ..... Doylestown
Weiller, Harry ..... Allentown

Weinberger, Laura S. ..... Quakertown
Weiss, Elizabeth ..... Bethlehem
Wentz, Mary ..... Parryville
Wetherhold, Angeline ..... Allentown
Wetzler, Adolph ..... Schnecksville
Whitthuhn, Elise ..... Allentown
Will, Grace ..... Allentown
Wimmer, H. C. ..... Saucona
Winters, Sallie ..... Allentown
Witmer, Kathryn ..... Reamstown
Yaxtheimer, Harry ..... Emerald
Yellis, Harriet ..... Allentown
Young, Margaret ..... Northampton
Ziegler, Raven ..... Macungie
Zimmerman, Leontine ..... Allentown
Wolfinger, Day ..... Smithburg, Md.

UNDERGRADUATES

SENIORS

Anderson, Harold C. ..... Rutland, Vt.
Barthold, Harold J. ..... Bethlehem
Bauer, John T. ..... Allentown
Bean, David T. ..... Perkasie
Beddow, William D. ..... Richmond Hill, N. Y.
Bittner, Mark R. ..... Allentown
Bornman, Ralph H. ..... Alburtis
Butz, Franklin J. ..... Kutztown
Edelman, Paul S. ..... Reading
Ettinger, Amos A. ..... Allentown
Fedko, Waldemar T. ..... Northampton
Feldman, George ..... Allentown
Freitag, Arthur H. ..... Brooklyn, N. Y.
Fry, Harold C. ..... Ephrata
Hartman, Roger W. ..... Allentown
Heim, Paul H. ..... Orwigsburg
Hettinger, Alfred K. ..... Allentown
Hoffberger, J. Paul ..... Womelsdorf
Hoffman, Roy H. ..... Oley
Kistler, Daniel D. ..... Coopersburg
Kline, Arlan L. ..... Brooklyn, N. Y.

Koch, G. Herbert ..... Allentown
Kroninger, Victor A. ..... Emaus
Laury, Joseph E. ..... Bethlehem
Lichty, Ammon ..... Pennsburg
Longacre, Reuben F. ..... Slatington
Lynch, Paul L. ..... Kutztown
McKee, Elmer E. ..... Allentown
Miller, T. Kenneth ..... Irwin
Morgan, James G. ..... Tower City
Murtagh, Hugh J. ..... Philadelphia
Musselman, Lloyd R. ..... Perkasie
Phillips, H. Stanley ..... Mohrsville
Schaertel, Clarence ..... Buffalo, N. Y.
Schantz, Linn H. ..... Macungie
Shafer, Albert H. ..... Kresgeville
Shane, William G. ..... Allentown
Shankweiler, John V. ..... Kutztown
Shankweiler, Raymond G. ..... Allentown
Shelly, Paul K. ..... Wilmington, Del.
Spencer, Raymond B. ..... Andover, N. J.
Talmage, Arthur ..... Newton, N. J.
Trach, Thomas ..... Kresgeville
Trexler, Mark K. ..... Topton
VanZandt, William A. ..... Sellersville
Wehr, Roland ..... Allentown
Weaber, William F. ..... Allentown
Wills, William ..... Brooklyn, N. Y.
Wilson, William H. ..... Mechanicsburg
Wohlsen, Paul T. ..... Lancaster
Zweier, Theodore W. ..... Sunbury
Ziegler, Raven H. ..... Macungie

Seniors, 52.

JUNIORS

Benze, W. Theodore ..... Philadelphia
Berger, Walter S. ..... Bernville
Bjerkoe, George O. ..... Brooklyn, N. Y.
Bleiler, Edgar D. ..... Kutztown
Butz, Samuel D. ..... Kutztown
DeTurck, Maurice K. ..... Oley
Dillman, Willis L. ..... Philadelphia
Dolan, Henry ..... Topton

DRUCKENMILLER, TITUS V. ..... Sellersville
EISENHARD, H. EDWIN ..... Cementon
EMERICH, LANDO ..... Auburn
FETHEROLF, RICHMOND D. ..... Jacksonville
FINCK, ELMER F. ..... New Market, Va.
GEBERT, G. HERBERT ..... Tamaqua
GERHART, LUTHER F. ..... Philadelphia
GRESH, RALPH R. ..... Obelisk
GRETH, MORRIS S. ..... Hamburg
HOWER, FRANK B. ..... Danielsville
KEHRLI, ANDREW B. ..... Scranton
KIRCHNER, EDWIN L. ..... Kingston, N. Y.
KISTLER, MYRON M. ..... Coopersburg
KLINE, JESSE G. ..... Northampton
KNAUSS, HAROLD P. ..... Allentown
LANTZ, THOMAS W. ..... Shiremanstown
LAZARUS, FRANK W. ..... Bethlehem
MERKLE, ROBERT G. ..... Allentown
MICKLEY, ARTHUR H. ..... Allentown
MILLER, NEVIN D. ..... Phoenixville
NAGLE, PAUL A. ..... Allentown
OBERLY, ROBERT S. ..... Washington
ORR, PAUL R. ..... Phillipsburg, N. J.
RAMER, PAUL W. ..... Allentown
REX, LEON O. ..... Slatington
RITTER, CLARENCE C. ..... Allentown
REINARTZ, HERBERT G. ..... East Liverpool, Ohio
SCHAEFFER, HAROLD F. ..... Allentown
SEIP, THEODORE A. ..... Allentown
SHARKEY, HARRY E. ..... Delano
SNYDER, RAYMOND ..... Allentown
SOWERS, GEORGE M. ..... Auburn
SPIEKER, PAUL F. ..... Allentown
STEFFY, EARL W. ..... Mohnton
STINE, RUSSELL ..... Allentown
TREXLER, CLIFFORD H. ..... Allentown
VOIGT, CONRAD G. ..... New Haven, Conn.
WERKHEISER, RUSSELL A. ..... Wind Gap

Juniors, 46.

SOPHOMORES

ALDERFER, HENRY F. ..... Souderton
BAKER, JOHN A. ..... Allentown
BALMER, GEORGE B. ..... Reading
BEARY, PAUL H. ..... Allentown
BENNYHOFF, LUTHER ..... East Mauch Chunk
BOLICH, CHARLES M. ..... Allentown
BRODELL, CHARLES F. ..... Stroudsburg
CASSONE, CARL A. ..... Allentown
CHERNIAK, SYLVESTER ..... South Bethlehem
CLAUSER, JAMES ..... Catasauqua
CROWLEY, JOSEPH G. ..... Steelton
ENGLER, WILLIAM W. ..... Catasauqua
ERB, ALBERT K. ..... Allentown
FRITZ, IRA S. ..... Lancaster
HACKMAN, NORMAN L. ..... Philadelphia
HACKMAN, WESLEY W. ..... Philadelphia
HASSINGER, J. KENT ..... Elizabethville
HODGE, WILLIAM S. ..... Vandergrift
KNAUSS, CALVIN ..... Allentown
KOCH, J. WALTER ..... Allentown
KRAMER, R. ELMER ..... Perkasie
LEWIS, HOWARD H. ..... Norristown
LUTZ, RICHARD C. ..... Philadelphia
MANN, HORACE ..... Bangor
MILLER, JOHN G. ..... New Market, Va.
MILLER, RAYMOND ..... Allentown
MILLER, ROBERT K. ..... Allentown
MILLS, CHRISTIAN ..... Brodheadsville
MOHR, EUGENE ..... Alburtis
MOSSER, WILLIAM F. ..... Allentown
PARK, RUSSELL W. ..... Easton
REES, GOMER S. ..... Lehighton
RITTER, PAUL O. ..... Allentown
RHODE, PAUL H. ..... Allentown
ROTH, ALLEN L. ..... Slatington
RUPP, GEORGE A. ..... Allentown
SCHMERKER, FREDERICK ..... Allentown
SCHMOYER, STERLING ..... Wescoesville
SEWELL, ROBERT R. ..... Allentown
SCHULER, HORACE T. ..... East Texas
SOTTER, HAROLD J. ..... Pottstown

Stroup, Russell ..... Allentown
Sussman, Herman ..... Allentown
Taggart, Austin L. ..... Norristown
Thomas, Robert V. ..... Seymour, Conn.
Transue, William J. ..... Catasauqua
Trout, John A. ..... Pottstown
Wagner, C. Morgan ..... Strausstown
Weaver, Floyd H. ..... Allentown
Weaver, Paul F. ..... Perkasie
Weiler, Fred W. ..... Allentown
Zartman, Ira F. ..... Lititz

Sophomores, 52.

FRESHMEN

Abbott, John H. ..... Allentown
Acker, Elmer R. ..... Sonderton
Afflerbach, Ralph H. ..... Quakertown
Allen, C. Norman ..... Elwood, N. J
Allen, Amos S. ..... Phillipsburg, N. J.
Baker, Winfred C. ..... Allentown
Balaska, Andrej ..... Monessen
Balliet, Allen M. ..... Allentown
Bashore, Sterling F. ..... Schuylkill Haven
Bauer, Charles T. ..... Allentown
Beerweiler, Clarence F. ..... Jersey Shore
Begel, Harold W. ..... Lehighton
Benner, Royal D. ..... Catasauqua
Berker, Francis W. ..... Steelton
Bittner, Robert E. ..... Allentown
Bolinski, Joseph ..... Tamaqua
Bright, Thomas ..... Norristown
Dietrich, Alfred M. ..... Allentown
Druckenmiller, Earl ..... Sellersville
Eichner, Malcolm ..... Freemansburg
Ettinger, Samuel ..... Carlisle
Fasig, Paul L. ..... Reading
Faust, A. Franklin ..... Zionsville
Fedko, Alexander H. ..... Northampton
Fenstermaker, Theodore R. ..... Allentown
Flexer, Carl S. ..... Allentown
Flower, Russell ..... Gouldsboro
Frankenfield, Leonard D. ..... Butztown
Gandel, Isadore ..... Bethlehem

Helfrich, Ellwood V. ..... Allentown
Heller, Roland ..... Allentown
Hildebrand, Paul H. .....Brooklyn, N. Y.
Hodgin, Herbert B. .....Greensboro, N. C.
Hucke, Robert W. ..... Allentown
Huey, Harry W. .....Elizabeth, N. J.
James, Clarence S. ..... Bethlehem
Kernan, James ..... Bethlehem
Kinder, Norman O..... Phillipsburg, N. J.
Klick, Marvin ..... Nazareth
Koehler, Truman L. ..... Bethlehem
Koller, Paul B. ..... Fleetwood
Kroninger, Luther H. ..... Allentown
Kroninger, Paul ..... Allentown
Kurtz, Stanley ..... East Greenville
Levy, Jacob ..... Allentown
Linder, Charles E. ..... New York City
Mann, Abe ..... Norristown
Mann, Webster S. ..... Catasauqua
Matthias, Charles A. ..... Wyomissing
Matson, Edward ..... Rochester
Maxson, Louis R. ..... Detroit
McNeil, Edgar W. ..... Owego, N. Y.
Mengel, Clarence W..... Bernville
Messersmith, Quintin W. ..... Fleetwood
Miller, James A. ..... New Market, Va.
Newhard, Aaron T. ..... Catasauqua
Nicholas, George W. ..... Allentown
Neubling, Carl D. ..... Reading
Oberly, John W. ..... Allentown
O'Conner, Paul D. ..... Phillipsburg, N J.
Pharr, John ..... Norristown
Phifer, Robert J. ..... Coplay
Raines, Russell O. ..... Detroit, Mich.
Rauch, Ernest A. ..... Emerald
Reilly, Matthew F. .....Allentown
Rex, Percy F. ..... Ardmore
Roeppe, Carl .....Woodhaven, N. Y.
Roeppe, Edward .....Woodhaven, N. Y.
Rogers, Alvin T. ..... Richmond Hill, N. Y.
Schanz, Charles ..... Jamaica, N. Y.
Schuler, Edward ..... Bethlehem
Seifert, Carl E. ..... Ottsville

Seyfried, Ernest M. ..... Allentown
Shaffer, Elmer K. ..... Allentown
Shiffert, Orlando ..... Allentown
Shoemaker, Henry J. ..... Allentown
Shook, Foster, E. ..... Easton
Shover, Bertram P. ..... Allentown
Sittler, Earl Z. ..... Lehighton
Skean, William J. ..... Pottstown
Snyder, Arthur P. ..... Catasauqua
Sowers, Harry E. ..... Auburn
Specht, J. Henry ..... Pottstown
Stauffer, Robert G. ..... Emaus
Stauffer, Robert L. ..... Allentown
Stetzler, Luther D. ..... Hamburg
Stowell, Eugene L. ..... Rochester, N. Y.
Strauss, Harold L. ..... Bernville
Sweitzer, Luke S. ..... Geigers Mills
Thayer, John ..... Quakertown
Unversagt, Theodore ..... Topton
Walker, O. R. W. ..... Allentown
Waller, Raymond L. ..... Allentown
Webb, Arthur O. ..... Lehighton
Weiss, Howard L. ..... Philadelphia
Wenner, Warren M. ..... Allentown
Weston, Paul S. ..... Allentown
Whitenight, Harold P. ..... Allentown
Williams, Fred H. ..... Slatington
Wright, Clifford ..... Bethlehem

Freshmen, 100.

SUMMARY

Seniors	25
Juniors	46
Sophomores	52
Freshmen	100
Extension Course	313
Preparatory School	190
Total	753
Names appearing twice	34
Total	719

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